MODERN TEXTILES MAGAZINE

DESKBOOK OF MANMADE FIBER FACTS

WITH FIBER TRADENAMES, PROPERTIES AND GENERIC DEFINITIONS.

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TABLES OF DENIER NUMBERS AND FILAMENTS COUNTS, AND OTHER USEFUL INFORMATION.

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SEPTEMBER, 1960

For the first time we present our DESKBOOK OF MANMADE FIBER FACTS. It is offered as a special section of this issue. The purpose of the DESKBOOK is to serve as a handy dictionary of practical information about manmade fibers, their properties and their uses. It is intended as a useful reference book that the millman, the dyer and finisher, the converter, the fabric technologist will keep at hand 12 months a year for quick use when he wants an answer on some essential point regarding manmade fibers.

Along with our Tables of Denier Numbers and Filament Counts offered in a special pullout arrangement within the DESKBOOK, and our regular monthly price list of manmade fibers which appears on page 119, this issue of MODERN TEXTILES should be of long-lasting usefulness for every person working with manmade fibers.

We plan to make our DESKBOOK an annual feature of our September issue. And next year we want to make it still more informative and helpful. ***For this reason The Editors would like your comments and suggestions. Let us hear from you.***

NYLON

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polyamide having recurring amide groups (—C—NH—) as an integral part of the polymer chain.
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Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
CAPROLAN	Allied Chemical	type 6 nylon produced from caprolactam	127,000	8.2 to 9.1	1.14	48
CHEMSTRAND NYLON	Chemstrand	type 66 nylon in both regular and high tenacity form	H.T. 86,000 to 134,000. Regular: 67,000 to 86,000	H.T: 5.9 to 9.2 Regular: 4.6 to 5.9	1.14	H.T: 49. Regular: 18
DU PONT NYLON	Du Pont	—	58,400 to 134,000	4.0 to 9.2.	1.14	9.5 to 47.5
ENKA NYLON	American Enka	filament—high tenacity	109,000 to 125,000	8.5	1.14	48
ENKA NYLON	American Enka	filament—regular tenacity	73,000 to 84,000	5.5 to 6.5	1.14	20 to 25
I.R.C. NYLON; NYLON 22; NYLOFT	Industrial Rayon	nylon 6; (polycaprolactam) available as staple fiber, bulk cont. filament and tow	65,000 to 73,000	4.5 to 5.0	1.14	10

The generic names and definitions set out in the following pages are those established for manmade fibers by the U. S. Federal Trade Commission in its "Rules and Regulations under the Textile Fiber Products Identification Act," effective March 3, 1960. Generic names and definitions are given only for fibers currently available in commercial quantities, or shortly to be made available by their respective manufacturers.

Also set out in the Tables are the tradenames of such fibers, names of their respective producers and their essential properties. All data given were furnished by the producers of these fibers. Full corporate names and street addresses of fiber producers mentioned in the Tables are found on the last page of the second Pullout Section in this issue.

NOTES TO THE TABLES: "psi" is an abbreviation for pounds per square inch; "gpd" for grams per denier. Moisture regain data is based on the standard practice of 65% relative humidity at 70°F.

HOW TO ORDER REPRINTS: Reprints of this Deskbook Section are available from MODERN TEXTILES MAGAZINE, 303 Fifth Ave., New York 16. Deskbook reprints complete with the pullout tables of Deniers and Filaments are $1.00 each. Without the pullout tables, the price is 50¢. Denier and Filament tables may be ordered separately at 50¢. All orders for 25 or more are granted 20% discount.

MAJOR END USES

Carpets and rugs; upholstery cloths; knitted garments; warp knit goods for lingerie, sleepwear and dresses; woven dress fabrics; sportswear; tire cord; webbing; cordage; coated industrial fabrics.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
34 to 45	0.78	4.5	Melting range 414-428°F.	Metal complex dyes usually preferable, but most other dyestuffs provide deep-dyeings with excellent levelling
—	H.T: 0.83 Regular: 0.76	4.5	Melting temperature range 250°C. to 255°C.	Has receptivity for most classes of dyes, but for most purposes, dyes used are selected from disperse and acid dye classes
17 to 40	0.84 to 0.74	4.2	Sticks at 445°F. Melts at 482°F.	Readily dyed with disperse and acid dyes. Other classes are also used.
—	0.75	4 to 5	Melts at 420°F. Yellows slightly at 300°F. when held for 5 hours.	
0.32 to 0.40 at 1%	0.67	4 to 5	Melts at 420°F. Yellows slightly at 300°F. when held for 5 hours.	Excellent affinity for all types of dyestuffs including premetalized acid, chrome, direct acid and vat dyes
9.5	1.1	4.5	Melts at 420°F.	Affinity for all types of dyestuffs

POLYESTER

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polymer composed of at least 85% by weight of an ester of a dihydric alcohol and terephthalic acid (p—HOOC—C_6H_4—COOH).

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity psi	Specific Gravity	Stiffness gpd
DACRON	Du Pont	Polyester available as staple fiber & tow, and as filament yarn	53,000 to 141,000	3.0 to 8.0	1.38	12 to 67
FORTREL	Fiber Industries, Inc. Marketed by Celanese	polyester staple fiber	70,000 to 76,000	3.7 to 4.7	1.38	11
KODEL	Eastman	polyester fiber	39,000 to 47,000	2.5 to 3.0	1.22	11
VYCRON	Beaunit	modified polyethylene terephthalate	75-110 x 10^3	4.2 to 6.3	1.38	21

ACRYLIC

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polymer composed of at least 85% by weight of acrylonitrile units (—CH_2—CH(CN)—).

Tradename	Producer	Description	Tensile Strength psi	Ultimate tenacity gpd	Specific Gravity	Stiffness gpd
ACRILAN	Chemstrand	Type 16 Type 1656 acrylic staple fiber & tow in various deniers	30,000 to 40,000	2.0 to 2.7	1.17	7
CRESLAN	American Cyanamid	acrylic fiber	45,000	2.5	1.18	5.5
ORLON	Du Pont	Type 42	35,000	2.4	1.16	10
ZEFRAN	Dow	acrylic fiber with alloy structure	53,000	3.5	1.19	11

MAJOR END USES

Wide range of men's, women's and children's apparel; sportswear; summer suits in blends with cotton and wool; industrial fabrics; curtains, draperies.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
60 to 110	0.38 to 0.48	0.4	Sticks at 445°F. Melts at 482°F.	Dyed with disperse, developed (azoic) & cationic (for some types) with carrier or at high temperatures
30 to 40	0.6 to 0.8	0.4	Melting point about 480°F. Sticks at about 460°F.	Dyed with disperse & developed dyes, usually with carrier or high temperatures
25 to 35	0.5	0.4	Can be ironed up to 410°F. Melts at about 555°F.	Dyed with disperse and developed dyes. Carriers must be used to provide complete range of shades at the boil, but are not required when pressure equipment is used
40 to 50	1.75	0.4 to 0.8	Softens at 215°C. Melts at 235°C.	Can be dyed with disperse dyes and with developed azoics

MAJOR END USES

Broad range of woven and knitted apparel fabrics; fleece and deep pile fabrics; home furnishing fabrics including blankets, carpets, rugs; industrial applications such as work clothes; industrial uniforms; weather stripping; special types of paper; other industrial fabrics.

Modulus gpd	Toughness index	Moisture regain	Effect of heat	Dyeability
39 to 47	0.46	1.5	Sticks at 470° to 480°F.	Type 1656 disperse basic, acid acid metalized, neutral premetalized chrome & naphthol dyes. Type 16 with basic & disperse dyes only.
40.0	0.58	2.2	410°F sticking temperature	Excellent fastness with acid, premetalized; chrome, direct, acetate & basic. Also vat, sulfur & naphthol used.
50	0.24	1.5	Sticks at about 455°F. Safe ironing temperature about 275°F.	Dyed with cationic, disperse, acid (copper technique) & selected vat & naphthol dyes.
43	—	2.5	490°F. sticking temperature	Dyed with vat, naphthol, sulfur, after-treated direct & neutral premetalized dyes.

MODACRYLIC

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polymer composed of less than 85% but at least 35% by weight of acrylonitrile units (—CH_2—CH(CN)—).

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
VEREL	Eastman	chemically modified acrylic type fiber	42,000 to 47,000	2.5 to 2.8	1.37	8.0
DYNEL	Union Carbide	staple fiber made from vinyl chloride and acrylonitrile	42,000 to 45,000	2.5 to 3.3	1.35	8.2

NYTRIL

A manufactured fiber containing at least 85% of a long chain polymer of vinylidene dinitrile (—CH_2—$C(CN)_2$—) where the vinylidene dinitrile content is no less than every other unit in the polymer chain.

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
DARVAN	Celanese	co-polymer of vinylidene dinitrile and vinyl acetate	35,000 to 40,000	2.0 to 2.3	1.2	7.0

RAYON

A manufactured fiber composed of regenerated cellulose, as well as manufactured fibers composed of regenerated cellulose in which substituents have replaced not more than 15% of the hydrogens of the hydroxyl groups.

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
AVISCO	American Viscose	regular & intermediate tenacity viscose rayon	38,000 to 68,000	1.9 to 3.4	1.52	10 to 13
AVLIN	American Viscose	multicellular self-bonding viscose staple	32,000	1.6	1.52	6
AVRIL	American Viscose	high wet-modulus viscose rayon, dimensional stability equal to cotton	66,000	3.3	1.52	34
AVRON, XL	American Viscose	high tenacity viscose rayon staple	over 80,000	over 4	1.52	13

MAJOR END USES

Carpets, rugs, pile coat fabrics, pile liners, draperies, blended apparel fabrics, industrial fabrics; men's summer hats; blankets, knit underwear, footwear trim.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
35	0.46	3.5 to 4.0	Stiffens & discolors above 300°F.	Dyed with disperse, basic, & neutral dyeing premetalized dyes at temperatures as low as 160°F.
30	0.53	Less than 4	Strain release starts at 240°F. Softening range 300 to 325°F.	Dyed with entire range acetate dyes; large number of wool acid colors; neutral dyeing premetalized dyes; many direct, most basic and certain vat dyes

MAJOR END USES

Knitted garments, soft-finish woven goods in blends with cotton, rayon and wool; hand knitting yarns; pile fabrics.

20-25	0.34	2.6	Highly resistant & very stable.	Dyed with disperse, cationic, azoic dyes. Carrier at the boil or pressure dyeing used.

MAJOR END USES

Alone or blended with natural and other synthetic fibers, rayon is widely used in apparel, home furnishing, and industrial fabrics including dresses, suit linings, boys' wear, carpets, draperies, tire cord, industrial belting, nonwovens.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
20	0.20 to 0.35	13	Does not melt. Loses strength at 300°F. Decomposes at 400°F.	Similar to cotton.
20	0.24	13	Does not melt. Loses strength at 300°F. Decomposes at 400°F.	Similar to cotton.
67	0.15	13	Does not melt. Loses strength at 300°F. Decomposes at 400°F.	Similar to cotton
40	0.65	13	Does not melt. Loses strength at 300°F. Decomposes at 400°F.	Similar to cotton

Tradename	Producer	Description	Tensile Strength psi	Ultimate tenacity gpd	Specific Gravity	Stiffness gpd
BRIGLO PERLGLO ENGLO	American Enka	regular tenacity continuous filament yarn	32,367 to 39,560	1.8 to 2.2	1.52	9.0 to 11.0
COLORAY	Courtaulds	solution-dyed viscose rayon staple	46,000	2.4	1.52	12
COMISO	Beaunit	tow yarn	83,000	4.2	1.53	15
CORVAL	Courtaulds	cross-linked cellulosic fiber	40,000 to 46,000	2.0 to 2.2	1.52	14 to 15
CUPRAMMONIUM RAYON	Beaunit	cuprammonium filament yarn	33,000 to 44,500	1.7 to 2.3	1.52 to 1.54	15.5
DUPONT Rayon	Du Pont		31,200 to 97,300	1.6 to 5.0	1.52	6.4 to 45.4
FIBER 500 (non-commercial)	American Enka	high modulus cellulosic fiber	58,350	3.00	1.50	32
FIBRO	Courtaulds	viscose rayon staple fiber	46,000	2.5	1.5	12
FORTISAN	Celanese	regenerated cellulose high strength filament yarn	136,000	6 to 7	1.5	117
FORTISAN-36	Celanese	highly oriented regenerated cellulose made into heavy denier filament yarn	155,000 plus	8.0 plus	1.52	135
PREMIER, SUPERWIND, LEKTROSET, NUPRON, DY-LOK, STRAWN, SPUN-BLACK		continuous filament viscose rayon	45,000 to 57,000	2.3 to 2.9	1.50	17
I.T.	American Enka	improved tenacity viscose rayon staple	55,425	2.85	1.50	17
NARCO	Beaunit	continuous filament yarn	40,000	2.0	1.53	11 (average)
NARCON	Beaunit	Type 1 and Type 2 staple fiber	Type 1 89,000; Type 2 83,000	Type 1 4.5; Type 2 4.2	1.53	Type 1 32; Type 2 15

Modulus gpd	Toughness index	Moisture regain	Effect of heat	Dyeability
0.85 to 0.95 at 5% elongation	0.14 to 0.24	13	Loses strength at 300°F. Decomposes at 350-400°F.	Readily accepts wide range of dyes—direct, vat, azoic, basic, mordant, pigment, sulfur
40 to 50	25	13 to 14	Decomposes at 350°F.	Can be over-dyed in blends with other fibers
50	.6	13.0	Does not melt. Loses strength at 300°F.	Dyes with direct, vat developed & azoic (cotton dyes)
45 to 55	16 to 17	13	Decomposes at approximately 350°F.	No affinity for acid colors. Dyes level with all dyestuffs used with viscose rayon
68	0.14	12.5	Decomposes at 300°F.	Its hydrophilic properties result in easy aqueous swelling and a tendency to dye quickly and to a deeper shade than other cellulosics
60 to 120	0.20 to 0.28	13	Does not melt.	Similar to cotton
0.74 at 5% elongation	0.13	12.5	Does not melt.	Readily accepts wide range of dyes—direct, vat, azoic, basic, mordant, pigment, sulfur
40 to 50	25	13-14	Decomposes at 350°F.	Dyeable in same manner as cotton
170	0.21	10.7	In general, similar to cotton and rayon.	Dyed with same dyes as cotton and rayon. Dyes more slowly absorbed
250	0.26	9.6	In general, same as cotton. Decomposes at higher than 300°F.	Direct and vat colors used. Rate is slower than cotton; color value not as high
21.5	.2	13	Does not melt or soften.	Dyes easily
0.54 at 5% elongation	0.22	12.8	Does not melt.	Readily accepts a wide range of dyes—direct, vat, azoic, pigment, mordant, sulfur
—	.2	13.0	Does not melt. Loses strength at 300°F.	Dyes with direct, vat, developed & azoics (cotton dyes)
Type 1 55; Type 2 50	Type 1 .3; Type 2 .6	Type 1 13.0; Type 2 13.0	Same as above	Same as above

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
NEWBRAY	New Bedford Rayon Div., Mohasco Industries	continuous filament viscose yarn	46,000	2.35	1.52	—
TOPEL	Courtaulds	cross-linked cellulosic fiber	40,000 to 46,000	2.0 to 2.3	1.52	15 to 16
RAYON	American Enka	high crimp viscose rayon staple fiber	48,625	2.5	1.50	12.8
RAYON	American Enka	regular crimp viscose rayon staple fiber	50,575	2.60	1.50	13.3
TEMPRA	American Enka	high tenacity viscose continuous filament yarn	50,348 to 57,540	2.8 to 3.1	1.52	19.4
TYREX	American Enka	high tenacity tire yarn	84,500 to 93,500	4.7 to 5.2	1.52	53.0
TYREX	Beaunit	high tenacity fiber	98,000	5	1.53	29
ZANTREL Polynosic	Hartford Fibres	high wet modulus, dimensionally stable, cellulosic staple fiber	66,000	conditioned, 3.4; wet, 2.7	1.51	34[4]

ACETATE and TRIACETATE

A manufactured fiber in which the fiber-forming substance is cellulose acetate. Where not less than 92% of the hydroxyl groups are acetylated, the term triacetate may be used as a generic description of the fiber.

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
ACELE	Du Pont	acetate filament yarn	18,700 to 23,800	1.1 to 1.4	1.32	About 5.0
ACETATE	Celanese	acetate filament yarn	22,000 to 28,000	1.2 to 1.4	1.32	4.0 to 5.5
ACETATE	Celanese	acetate staple fiber	22,800	1.35	1.32	4.0

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
—	—	about 12%	Does not melt. Burns like cotton.	Dyes readily with dyes suitable for cotton
38 to 42	0.195	13	Decomposes at 350°F.	Dyes level and even with all common cellulosic dyes. Slightly higher rate of exhaustion than viscose rayon staple
0.37 at 5% elongation	0.26	12.8	Does not melt.	Readily accepts wide range of dyes—direct, vat, azoic, mordant, pigment, sulfur
0.73 at 5% elongation	0.26	12.8	Does not melt.	Readily accepts a wide range of dyes—direct, vat, azoic, mordant, pigment, sulfur
1.27	0.24	13	Loses strength at 300°F. Decomposes at 350-400°F.	Readily accepts wide range of dyes—direct, vat, azoic, basic, mordant, pigment, sulfur
3.52	0.22	13	Same as immediately above.	Not usually dyed.
—	.3	13.0	Same as above	Not usually dyed
80 (Young's Modulus)	0.17 gpd[t]	12.2	Does not melt; more resistant to heat degradation than cotton.	Can be dyed on a continuous cotton range, as well as pad dyed with naphthols, indigosols, reactives and sulfur dyes through full color range

MAJOR END USES

Dresses, linings, draperies, curtains, sportswear, lingerie, upholstery fabrics, bedspreads, nonwovens, children's wear, knitted fabrics.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
About 40	0.20	6	Softening or sticking temperature about 400°F. Safe ironing temperature about 300°F.	Readily dyed with disperse and some azoic dyes
35 to 40	1.8	6.5	Becomes sticky at 350-375°F. Softens at 500°F. Burns relatively slowly.	Readily dyed by disperse and disperse-developed dyeing methods in all colors and shade depths; vats, acids and basic dyes applied by special methods
21	0.23	6.5	Same as immediately above.	Same as immediately above

Tradename	Producer	Description	Tensile Strength psi	Ultimate tenacity gpd	Specific Gravity	Stiffness gpd
ARNEL triacetate filament	Celanese	cellulose triacetate with not less than 92% of hydroxyl groups acetylated	20,000 to 26,000	1.2 to 1.4	1.30	5
ARNEL triacetate staple	Celanese	cellulose triacetate with not less than 92% of the hydroxyl groups acetylated	20,800	1.3	1.30	3.2
ARNEL 60 triacetate staple	Celanese	same as immediately above	37,000 to 42,000	2.0 to 2.3	1.30	—
AVISCO	American Viscose	cellulose acetate yarn	22,000 to 28,000	1.3 to 1.5	1.32	6
CHROMSPUN	Eastman	solution-dyed cellulose acetate fiber	22,000 to 28,000	1.26 to 1.34	1.32	5.0
ESTRON	Eastman	undyed cellulose acetate fiber	22,000 to 28,000	1.26 to 1.34	1.32	5.0

OLEFIN

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polymer composed of at least 85% by weight of ethylene, propylene, or other olefin units.

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
BEAUNIT POLYPROPYLENE	Beaunit	polypropylene fiber	77×10^3	6.7	0.90	12
DLP	Dawbarn	heat and light stabilized polypropylene yarn	55,000 to 75,000	4.8 to 6.5	0.90 to 0.91	20 to 60
DLP	Dawbarn	linear polyethylene yarn	35,000 to 80,000	2.9 to 6.6	0.95	20 to 50
OLANE	AviSun	polypropylene multifilament yarns and staple fiber	60,000 to 75,000	5.5 to 7	0.90 to 0.91	14 to 20
PROLENE	Industrial Rayon	isotactic polypropylene available as staple, cont. filament & tow	Cont. Multi-filament yarn: 80,000 to 93,000 Staple & tow: 55,000 to 74,000	Yarn: 6.5 to 7.5 Staple & tow: 4.5 to 6.0	.90	Yarn: 28 Staple & tow: 16

Modulus gpd	Toughness index	Moisture regain	Effect of heat	Dyeability
35 to 40	0.15 to 0.20	4.0	Melts at 572°F.; heat treated will not stick ironed at temperatures up to 482°F.	Good general dyeability somewhat slower than acetate. Dyed with same dyes as acetate
22	0.25	4.0	Same as immediately above.	Same as immediately above
49	0.24	4.0	Same as immediately above.	Same as immediately above
—	.18	6	Thermoplastic. Softness about 400°F. Melts at 500°F.	Dyed with acetate dyes; developed, vat dyes by special methods
44	.306 G/D	6.5	Can be ironed at temperatures up to 350°F. Burns slowly when ignited.	Yarns are colored in solution by manufacturer
44	.306 G/D	6.5	Same as immediately above.	Dyed with disperse colors at 180°F. to 200°F. Good overall fastness with proper selection of dyes. Slow heating and cooling recommended

MAJOR END USES

Auto seat covers, original auto upholstery, outdoor furniture tapes, rope and cordage, novelty fabrics, filter fabrics, nonwoven fabrics, industrial threads.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
42	1.85	0.8	Melts at 175°C.	Solution-dyed
—	0.90 to 0.91	None	Softens at 300-310°F. Melts at 325-350°F. Slow burning.	Pigmented before extrusion
—	0.95 to 0.96	None	Softens at 240-250°F. Melts at 255-280°F. Slow burning.	Pigmented before extrusion
45 to 60	0.9 to 1.1	Zero	Softens at 300 to 310°F. Melts at 325 to 335°F.	Solution-dyed only at present
Yarn: 3.63 Staple & tow: —	Yarn: 1.0 Staple & Tow: .9	.03	Melts at 333°F. Heat stabilized.	Under development. Can be dyed with selected vat and mordant dyestuffs

Tradename	Producer	Description	Tensile Strength psi	Ultimate tenacity gpd	Specific Gravity	Stiffness gpd
REEVON 80	Reeves	olefin fibers	50,000 to 90,000	4 to 7	.90 to .91	20 to 60
ROYALENE	United States Rubber	polyethylene and polypropylene monofilament and pluro-filament	50,000 to 90,000	5.0 to 7.3	0.905 to 0.965	20 to 70
TUFF-LITE	Industrial Plastics	polypropylene oriented monofilament	45,000 to 65,000	7	.90	—

SARAN

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polymer composed of at least 80% by weight of vinylidene chloride units (—CH_2—CCl_2—).

ROVANA micro-tape	Dow	folded tape, ready-to-weave filament	—	1.4 to 2.2	1.3 to 1.5	15 to 20

GLASS

A manufactured fiber in which the fiber-forming substance is glass.

Tradename	Producer	Description	Tensile Strength psi	Ultimate Tenacity gpd	Specific Gravity	Stiffness gpd
FIBERGLAS	Owens-Corning Fiberglas	glass in fibrous form for textile yarns	204,000 to 220,000 based on fiber area	Dry: 6.0 to 7.3 Wet: 4.0 to 4.6	2.55	322
J-M FIBER GLASS YARN	Johns-Manville Fiber Glass	continuous fiber produced from glass	200,000 to 220,000	6.0 to 7.3	2.54	322

SPANDEX

A manufactured fiber in which the fiber-forming substance is a long chain synthetic polymer comprised of at least 85% of a segmented polyurethane.

LYCRA	Du Pont	synthetic elastomer yarn	9,000	0.7	1.0	0.12
VYRENE	United States Rubber	a manufactured fiber formed from a long-chain polyurethane elastomer	9,000	—	—	—

VINYON

A manufactured fiber in which the fiber-forming substance is any long chain synthetic polymer composed of at least 85% by weight of vinyl chloride units (—CH_2—CHCl—).

AVISCO VINYON HH	American Viscose	thermoplastic heat-shrinkable vinyl chloride—vinyl acetate polymer	12,000 to 17,000	0.7 to 1.0	1.34	1.5

Modulus gpd	Toughness index	Moisture regain	Effect of heat	Dyeability
30	1.0	None	Softens at 300 to 315°F. Melts at 325 to 335°F.	Satisfactory range of colors being developed
—	0.3 to 0.5	None	Polyethylene melts at 250-280°F. Polypropylene melts at 325-335°F.	Pigmented before extrusion
—	0.4 to 0.8	Zero	Can stand up to 300-350°F.	Only by pre-extrusion method

MAJOR END USES

Outdoor furniture coverings; awnings; curtains and draperies; luggage; wallcovering; upholstery; auto seat covers.

12 to 17	—	1	Softening temperature 300 to 320°F.	Solution-dyed by producer

MAJOR END USES

Curtains, draperies, decorative fabrics, reinforced plastics.

Modulus gpd	Toughness Index	Moisture Regain	Effect of Heat	Dyeability
10.5×10^6	.07	None	Will not burn. Loses up to 50% tensile strength at 700°F. Strength continues to decline to softening point at 1,540°F.	Resin bonded pigments
—	0.07	None	Will not burn. Loses strength at 600°F. and above.	Color applied to surface (resin bonded pigments)

MAJOR END USES

Foundation garments; bathing suits; surgical hose; ski pants, snow suits, garters, waistbands, belts.

0.80	2.00	0.3	Sticking temperature, 347°F. Melting point 482°F.	Has affinity for most classes of dyes
500% stretch, 2,500 pounds per square inch	—	Less than 1%	Shrinkage starts at 180°F. Some thermoplasticity evident above 220°F. Tensile drops sharply above 220°F.	Disperse and acid dyes preferred; other classes can be used with special precaution

MAJOR END USE

Bonding agent in rugs, papers, nonwoven fabrics.

—	1.3	less than 0.5	Thermoplastic. Shrinks and softens 150-170°F. Melts 260°F.	——

METALLIC

A manufactured fiber composed of metal, plastic-coated metal, metal-coated plastic, or a core completely covered by metal.

MAJOR END USES

Broadly used as decorative or special effects yarns in apparel, home furnishing fabrics, domestics, auto upholstery.

Tradename	Producer	Description	Effect of heat	Dyeability
LUREX butyrate MF MM	Dow	Butyrate or metalized polyester film with or without aluminum foil, laminated into yarns ranging from 1/16" to 1/128" in width	No effect from wet heat, 3 hours in boiling water; no effect from dry heat, 24 hours at 140°F.	Yarns are not ordinarily dyed, but they may be with dispersed colors or with selected other colors when required
METLON "B"	Metlon Corp.	Laminate of foil and cellulose acetate-butyrate	Little or none up to 160°F.	Film will dye as acetate; metal foil will not dye
METLON "F"	Metlon Corp.	Laminated foil/polyester or metalized polyester yarn	Little or none up to 275°F.	Polyester portion will dye as other polyester fibers; metal portion obviously not dyeable
REYMET	Reynolds Metals	Foil-film lamination slit into narrow width or cut into staple	Sticks at 425°F. Melts at 425°F. (film only)	Colored by producer

Dictionary of fiber tradenames

Fiber Tradename	Generic Name	Tradename Owner
Acele	Acetate	Du Pont
Acrilan	Acrylic	Chemstrand
Antron	Nylon	Du Pont
Arnel	Triacetate	Celanese
Avisco Rayon	Rayon	Amer. Viscose
Avicron	Rayon	Amer. Viscose
Avlin	Rayon	Amer. Viscose
Avril	Rayon	Amer. Viscose
Avron, XL	Rayon	Amer. Viscose
Briglo	Rayon	Amer. Enka
Chemstrand nylon	Nylon	Chemstrand
Caprolan	Nylon	Allied Chem.
Celacloud	Acetate	Celanese
Celafil	Acetate	Celanese
Celaire	Acetate	Celanese
Celaloft	Acetate	Celanese
Celaperm	Acetate	Celanese
Celatow	Acetate	Celanese
Celatress	Acetate	Celanese
Chromspun	Acetate	Eastman Kodak
Civona	Rayon	Du Pont
Coloray	Rayon (solution-dyed)	Courtaulds (Ala.)
Cordura	Rayon	Du Pont
Corval	Rayon	Courtaulds (Ala.)
Creslan	Acrylic	American Cyanamid
Cumuloft	Nylon	Chemstrand
Dacron	Polyester	Du Pont
Darvan	Nytril	Celanese
DLP	Olefin	Dawbarn
Dynel	Modacrylic	Union Carbide
Englo	Rayon	Amer. Enka

(Continued on Page 66)

New fibers, new plants, new markets

MANMADE FIBERS- big today, bigger tomorrow

By Edward J. Hanlon
CALVIN BULLOCK, LTD.

THE RAPID GROWTH of synthetic fibers in recent years has had important repercussions on a wide range of industries and companies. The impact has been primarily on the chemical and textile industries, but there have also been investment implications for many rubber, oil and paper and pulp companies.

Some idea of the importance of this growing synthetic fiber business to the total economy may be had from a recent estimate by Du Pont that the investment in chemical fiber producing facilities stood at $2.6 billion at the end of 1959 and will reach $2.8 billion by the end of 1961. At the same time it was estimated that in the next two years capacity for the newer synthetics, such as polyamides, acrylics and polyesters will increase by about 25%.

For the chemical industry, the rapid growth of synthetic fibers has meant a bonanza business in sales of such products as adipic acid, acrylonitrile, hexamethylene-diamine, etc. It is estimated, for example, that sales of the polyester fiber, Dacron, in 1960 will run around 100 million pounds and production will require about 90 million pounds of dimethylterephthalate and about 30 million pounds of ethylene glycol.

Some of the pioneers in synthetics, such as Du Pont, have been completely integrated from the outset, producing all of the chemical components required for the various manmade fibers. In other instances chemical companies which have been important suppliers of raw materials to fiber manufacturers have eventually decided to compete with their customers by moving into fiber production. An illustration would be American Cyanamid Co., which has been a leading producer of acrylonitrile, and has now entered the increasingly competitive field of acrylics with its own fiber, "Creslan".

As the demand for both cellulosic and non-cellulosic fibers has grown, the chemical industry has run into increasing competition from the oil and rubber companies. The oil industry has from the outset been a source of some of the basic raw materials required for synthetic fibers. Standard Oil Co. of California has for years been the principal producer of paraxylene, which is sold to Du Pont for use in production of Dacron. Humble Oil is the largest producer of polypropylene, the basic raw material for the new olefin fibers. To date the oil companies have not moved toward production of the chemical fibers, except for Sun Oil Co., which has joint ownership with American Viscose of AviSun, which has begun pilot plant production of the olefin "Olane".

As for the rubber companies, Firestone is moving into the production of nylon 6 for tire cord, with an initial plant capacity of 12 million pounds. In 1957 B. F. Goodrich Co. began production of "Darvan", a dinitrile fiber, based on vinylidene cyanide and vinyl acetate. Last year the fiber rights to "Darvan" were sold to Celanese Corp. of America, the leading producer of acetate. U. S. Rubber Co. has recently entered the field of olefins with "Royalene".

The Cellulosic Fibers

The first synthetics were viscose rayon and acetate, which attained a total consumption of 100 million pounds as far back as 1927. Between 1927 and 1948 mill consumption of these cellulosics increased tenfold, or at an average annual rate of about 39%. During this same period consumption of the natural fibers —cotton, wool and silk increased by approximately 290% or at an average annual rate of only 6.7%.

From these disparate performances it is obvious that the cellulosics were gaining at the expense of natural fibers—primarily cotton, and, to a lesser extent, wool and silk.

Between 1927 and 1948 cotton consumption declined from 87% of the total for all fibers to about 70%. Wool increased its share of the market slightly, from 8.6% to 11%. Silk never had more than about 2½% of the market, was completely knocked out by nylon and World War II, and has subsequently had only a very minute recovery. This remarkable expansion of the cellulosics catapulted some rayon companies into the glamorous category of "growth" stocks.

In the last eleven years, the growth of the cellulosics has abruptly ended, and in 1959 rayon and acetate accounted for only 18.4% of total textile consumption

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as compared with 17.9% in 1948. In the first five months of 1960 total shipments of rayon and acetate yarn, staple and tow have declined 11% as compared with the same period a year ago.

High tenacity viscose rayon, which had taken practically all of the tire cord market away from cotton in the postwar years, has run into stiff competition from nylon, which currently holds about 35% of the market as compared with only 10% as recently as 1955.

Although nylon cord has not yet been accepted for original equipment, which accounts for about 38% of the tire market, it seems certain that nylon will continue to encroach on viscose rayon. This conclusion seems bolstered by the recent announcement by Firestone Tire & Rubber Co. that it intends to produce its own nylon filament yarn (Type 6) for use in tire cord.

In addition to increased competition from nylon and a more aggressive attitude on the part of cotton textile producers, the cellulosics also appear to have been losing ground in some areas to manmade fibers of a more recent origin than nylon. The conclusion seems inescapable that the cellulosics are now middle aged and possibly older, and that the future in synthetics belongs to the non-cellulosics.

The Non-Cellulosics

The earliest available figures on non-cellulosic fibers are for 1940, when mill consumption totalled 3 million pounds. The first consumption statistics for textile glass fibers are also in 1940, at 1.3 million pounds. The polyamide, Nylon 66—a product of the chemical research of Du Pont—was the first of the non-cellulosics. Glass fibers made their appearance at about the same time, and, although their growth has been quite spectacular, they have had less impact on the textile industry than nylon and the other non-cellulosics. The reason is, of course, the fact that the market for glass fibers has been to an important degree pre-empted by the building industry for insulation, acoustics and other purposes.

Prior to about 1953 Du Pont was the sole U. S. producer of nylon, and, although about half a dozen others have subsequently come into the field, it is believed that Du Pont still controls about 70% of total domestic capacity for both nylon 6,6 and nylon 6.

About ten years after the introduction of nylon, the next important group of non-cellulosics, the acrylics, made its debut. And here again Du Pont pioneered with Orlon. Currently the acrylics are estimated to account for about 20% of the total non-cellulosic market. The acrylics were followed by the polyesters, and several groups which might be called "hybrid synthetics". An example of the latter would be the modacrylics (Union Carbide's "Dynel" and Eastman's "Verel"), with a combination base of acrylonitrile and vinyl chloride.

A Growth Industry

We have previously noted that in 1940 combined consumption of non-cellulosics (Nylon 6,6) and textile glass fibers amounted to 4.3 million pounds. By 1950 mill consumption had reached 140 million pounds. In the next three years consumption doubled, and in the next four years it doubled again. By 1959 consumption had reached 743 million pounds.

Over the last ten years the average growth rate has worked out to over 70% per annum. The table below shows this spectacular growth of the non-cellulosics (including textile glass fibers) over the last nine years, together with a comparison for the same period for the cellulosics, cotton and wool.

MILL CONSUMPTION
MILLION POUNDS

	1950	1959	Percent Change
Non-cellulosics (including textile glass)	140.5	743.0	+428%
Rayon and acetate	1,351.6	1,253.7	—7
Cotton	4,680.1	4,354.0	—7
Wool	647.0	445.0	—31

This strong uptrend in non-cellulosics has continued unabated in 1960, with production for the first quarter of the year recording an increase of 16% over the same period a year ago. The showing of textile glass fibers was particularly noteworthy, with an increase of 46% over the first quarter of 1959. The cellulosics, on the other hand, have continued to lag, with the first quarter showing a drop of 4½% as compared with the first three months of 1959.

On the basis of expert testimony, it appears that this outstanding growth of non-cellulosic synthetic fibers will be continued, and in some cases accelerated. We have previously referred to the Du Pont statement that capacity for the newer synthetics will increase by 25% over the next two years. More recently, the President of Chemstrand Corp., a producer of nylon and acrylics, stated that for the five years, 1954-1959, shipments of non-cellulosics (excluding textile glass) increased from 280 million pounds to 624 million pounds, or by about 125%.

In this same Chemstrand statement it was estimated that by 1965 shipments of non-cellulosics will show a further increase of about 85% over the 1959 level. The following table shows the composition of this Chemstrand projection for 1965, together with compounded growth rates:

MILL CONSUMPTION
MILLION POUNDS (Including Exports)

	1955	1959	Rate of Growth (compounded)	1965	Rate of Growth from 1959 (compounded)
Polyamides	239	379	12.1%	668	9.9%
Acrylics	56	135	24.9%	237	9.8%
Polyester	44	77	15.0%	190	16.3%
Other	32	33	0.8%	54	8.5%
Total	371	624	13.9%	1,149	10.7%

These optimistic estimates by Chemstrand Corp. on the outlook for non-cellulosics appear to find substantial support in the plant expansion programs announced by many of the protagonists in this field. Du Pont, for example, announced in June that it will more than double its capacity for nylon yarn for tire cord at its Richmond, Virginia plant, and capacity at that plant alone will exceed 100 million pounds.

Du Pont has also recently begun production of Dacron at a new plant at Old Hickory, Tennessee, and eventually this plant will have a capacity of about

56 million pounds. It is estimated that the company's present capacity for Dacron runs around 70 million pounds.

Last year Eastman began work on a new plant for its polyester "Kodel", and initial capacity is expected to run around 20 million pounds. There are undoubtedly many people who associate Eastman Kodak solely with cameras and snap-shots and are not aware that this company has been in the chemical fiber business as far back as 1931. In 1952 the company took advantage of a new trend in cigarettes by introducing a special acetate tow for use in cigarette filters, and in 1956 introduced "Verel", a modified acrylic.

Breakdown of Non-Cellulosics: Nylon

As previously indicated, nylon and textile glass fibers were introduced at about the same time and were the first of the non-cellulosics. Prior to the advent of Chemstrand Corp., which was licensed to manufacture nylon filament yarns in 1951, Du Pont had this product wholly to itself. Currently there are six companies in the field, and estimates made by "Chemical Week" indicate the following set-up:

Company	Type	Estimated Annual Capacity (Million Pounds)
Du Pont	6,6	275
Chemstrand	6,6	120-125
Allied Chemical	6	20
Firestone	6	12
Industrial Rayon	6	10
American Enka	6	6.5

We have previously pointed out that Du Pont will expand its capacity for production of nylon 6,6. In March of this year Allied Chemical announced that it would increase its capacity for nylon tire yarn to about 50 million pounds, and subsequently it was stated that an expansion into fine denier yarns would raise nylon capacity to about 80 million pounds.

American Enka has also made plans to further increase nylon capacity. The newest entrant into this field is Dow Chemical which will build a plant with initial capacity of 12 million pounds of nylon filament yarn, primarily for use in tire cord.

Although nylon has been steadily increasing its share of the tire cord market, at the expense of rayon, it cannot be safely assumed that nylon will ever capture 100% of this market—nor can it be assumed that nylon will be any better able to protect its market position than rayon was after it took the business away from cotton.

Quite recently Goodyear Tire & Rubber Co. has announced that it has begun research into five synthetic fibers, looking for the "Tire of Tomorrow". Three of these are in the field of polyesters (Vycron, Terylene and Dacron). The fourth is Vinal FO, a non-acetylated polyvinyl alcohol fiber being developed by Air Reduction Co. The fifth is HT-1, a new polyamide being developed by Du Pont. Thus it is obvious that although non-cellulosics are continuing to expand in many directions, this growth entails increasing competition for new product markets and between existing and new synthetics.

Acrylics

Du Pont pioneered in acrylics, just as it had in nylon. Production of Orlon began in 1950. Currently the competitive situation is believed to be about as follows:

Company	Trade Name	Estimated Capacity (Million Pounds)
Du Pont	Orlon	120
Chemstrand Corp.	Acrilan	50
American Cyanamid	Creslan	27
Dow Chemical	Zefran	15

In addition to the above Eastman has productive capacity of about 5 million pounds for "Verel" and Union Carbide capacity for 6-8 million pounds of "Dynel". Both of these are modacrylics, or what we previously referred to as "hybrid synthetics". "Dynel" is a co-polymer of 60% vinyl chloride and 40% acrylonitrile. This modacrylic was introduced about nine years ago, and growth seems to have been somewhat below average for synthetics as a group.

It is estimated that the acrylics currently account for about one-fifth of the total non-cellulosic market. It will be noted from the preceding Chemstrand projection for 1965 that acrylics are expected to show about the same growth rate as the polyamides over the next six years.

Knit sweaters have been a lucrative market for acrylics and have cut heavily into an area where wool once was king. It is believed that sweaters account for about 65% of the total consumption of acrylics. Rugs and carpets are the next most important market for acrylics, and "Acrilan"' is understood to have made good progress in that product line.

However, the ubiquitous Du Pont has introduced within the last month a new "Orlon" carpet fiber, and here again competition is bound to intensify. Because of the fact that carpet wool is almost all imported and subject to wide price swings, the rug and carpet companies have been keenly interested in the development of synthetic substitutes.

At the present time it is estimated that rayon, non-cellulosics and cotton account for about 45% of rug and carpet raw materials and carpet wool 55%. Nylon has been increasing its share of this market and the new texturized nylon constitutes a serious threat to the acrylics.

Polyesters

Productive capacity in this group of non-cellulosics is believed about as follows:

Company	Trade Name	Estimated Capacity (Million Pounds)
Du Pont	Dacron	70-75
Eastman Kodak	Kodel	25
Beaunit Mills	Vycron	10-12
Fiber Industries, Inc.	Fortrel	40

The first fiber was developed by the British company, Calico Printers, around 1941. Subsequently patent rights for this new synthetic were acquired by

Imperial Chemical Industries, Ltd. in the United Kingdom and by Du Pont in the Western Hemisphere (excluding Canada). ICI has marketed this polyester under the name "Terylene". The Du Pont rights expire next year.

Recently ICI and Celanese Corp. have organized the jointly owned Fiber Industries, Inc., and a new plant in North Carolina has quite recently begun production of "Fortrel", which will add to competition in this area of synthetics.

"Kodel", the Eastman Kodak (Tennessee Eastman division) entrant in the polyester field, was introduced in September 1958, and at that time it was stated that this product is one of many outgrowths of research in polymer chemistry which the company has been pursuing since 1889.

Polypropylene and Others

Polypropylene (or Olefin) is the youngest of the chemical fibers, and production thus far is in an early stage. Space limitations preclude anything more than the notation that the early birds in this field include Eastman Kodak, Beaunit Mills, Reeves Brothers, Inc., Dawbarn Brothers, the Italian company Montecatini, which is building a plant in West Virginia, and others.

Previous mention has been made of the jointly owned AviSun, which is a pioneer in this area. Polypropylene fibers are already being used in outdoor furniture and for rope and cordage, but it is believed that progress may be slow for the next two or three years.

Miscellaneous non-cellulosics which can only be mentioned include Saran, Vinyon, and the fluorocarbon, "Teflon", developed by Du Pont. The growth of textile glass fibers has been so remarkable that this class of non-cellulosics could only be adequately treated in a separate review.

The development of synthetic fibers in recent years, particularly the non-cellulosics has been comparable to the post-war growth of such new products as transistors, antibiotics, and television sets. Although all manmade fibers still account for only about 30% of total textile consumption, they are continuing to gain at the expense of the natural fibers, cotton and wool.

The cellulosics, rayon and acetate, appear to have reached a plateau after an earlier growth record comparable to the current gains of the non-cellulosics. Inter-fiber competition is being intensified, with the polyamides challenging the cellulosics for the tire cord and other markets, and with some of the newer non-cellulosics posing a threat to both.

The growth of these fabulous fibers has been important to a broad cross-section of industries, including textiles, chemicals, oils, paper, and rubber. For the chemical industry the rise of synthetics has created a very sizeable bread-and-butter market for many raw materials. The inevitable result has been an increasing rapprochment between the textile and chemical industries, and to a lesser extent between textiles, petroleum, rubber and paper companies.

Tradenames

(Continued from Page 62)

Fiber Tradename	Generic Name	Tradename Owner
Estron	Acetate	Eastman Kodak
Fiberglas	Glass	Owens-Corning
Fibro	Rayon	Courtaulds (Ala.)
Fortisan	Rayon	Celanese
Fortrel	Polyester	Fiber Industries (Celanese)
J-M Fiber Glass Yarns	Glass	Johns-Manville
Kodel	Polyester	Eastman Kodak
Kolorbon	Rayon (solution-dyed)	Hartford Fibres
Lurex	Metallic	Dow
Lycra	Spandex	Du Pont
Metlon	Metallic	Metlon Corp.
Minifil	Rayon	Amer. Viscose
Newbray	Rayon	Mohasco
New Dull	Rayon	Mohasco
Newlow	Rayon	Mohasco
Nyloft	Nylon	Indus. Rayon
Nylon 22	Nylon (staple)	Indus. Rayon
Olane	Olefin	AviSun
Ondelette	Rayon	Du Pont
Orlon	Acrylic	Du Pont
Orlon Cantrece	Acrylic	Du Pont
Perlglo	Rayon	Amer. Enka
Prolene	Olefin	Indus. Rayon
Reevon	Olefin	Reeves Bros.
Reymet	Metallic	Reynolds
Rovana	Saran	Dow
Strawn	Rayon	Indus. Rayon
Super Cordura	Rayon	Du Pont
Topel	Rayon	Courtaulds (Ala.)
Tuff-Lite	Olefin	Indus. Plastics
Tufton	Rayon	Amer. Viscose
Type F	Acetate	Celanese
Type K	Acetate	Celanese
Verel	Modacrylic	Eastman Kodak
Viscalon	Rayon	Hartford Fibres
Vycron	Polyester	Beaunit
Vyrene	Spandex	U. S. Rubber
Zantrel	Rayon	Hartford Fibres
Zefran	Acrylic	Dow

Vycron Wash-and-Wear

Vycron, a new polyester textile fiber, was made available for the first time this year in wash-and-wear summer suits and other articles of men's, women's, and children's wearing apparel. Vycron is the result of the combined efforts of The Goodyear Tire & Rubber Co. and Beaunit Mills, Inc. More than 20 leading clothing manufacturers, a Goodyear spokesman said, are making garments from blends of the new polyester with cotton, wool, rayon, nylon and other synthetic fibers. Vitel, the basic polyester resin, is produced at Goodyear's new 10-million dollar plant at Point Pleasant, W. Va. At Beaunit's plant in Elizabethton, Tenn., the pellet-like Vitel is melted and spun into Vycron fiber.

MODERN TEXTILES MAGAZINE

DENIER NUMBERS and FILAMENT COUNTS of U. S. Manmade Yarns and Fibers

1960

an annual compilation

prepared by

H. George Janner
MANAGING EDITOR

Reprints of the Denier and Filament Tables are available at 50¢, with 20% discount for quantities of 25 or more.

TABLE 1 CELLULOSIC

DENIERS	40	45	50	55	65	75	100	120	125	150	200	230	240	250	275	300	350	450	600	700	900	1000
RAYON																						
	30	....	36	....	45	60	74	....	60	120	....	....	....	....	....	225	....	....	....	....	....	....
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ACETATE																						
American Viscose	11	11-14	....	14-20	....	20	28	32	....	41	54	....	80	....	....	80	....	....	....	....	....	....
Corp.	....	....	....	....	....	18	....	....	....	36	....	....	....	....	....	....	....	....	....	....	....	....
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	13	....	....	....	....	50	66	50	....	16	60	....	....	....	....	40	....	....	....	....	240	....
E. I. du Pont	....	....	....	....	....	....	....	....	....	....	64	....	....	....	....	....	....	....	....	....	....	....
de Nemours	....	....	....	18	....	24	32	....	....	40	60	....	....	....	....	40-80	....	120*	160*	....	240*	....
& Co., Inc.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	44*	....
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	....	....	....	....	....	....	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	13	....	19	25	30	....	38	50	....	....	....	....	75	....	114	156	....	....	....
	....	....	....	20	....	49	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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	....	....	....	....	....	19	25	....	....	38	....	....	....	....	....	75	....	114	....	....	128	....
Eastman Chemical	....	....	....	....	....	....	....	....	....	....	50	....	....	....	....	....	....	....	....	....	....	....
Products, Inc.	....	....	....	....	....	....	25	....	....	38	50	....	....	....	....	75	....	....	....	....	....	....
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	....	....	....	....	....	....	....	....	....	....	....	2 D/F	....	....	....	....	4 D/F	....	....	4 D/F	....	....
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TRIACETATE																						
Celanese Fibers	....	....	....	....	....	20	26	....	....	40	52	....	....	....	....	80	....	120	160	....	....	....
Co.	....	....	....	15	....	....	....	....	....	....	40	....	....	....	....	60	....	....	....	....	....	....

C YARNS

0	1080	1100	1200	1800	2200	2400	2500	2700	3000	3200	4000	4300	5000	5300	TYPES
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	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Rayon, Reel Spun, Spool Spun Yarn
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
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	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Perlglo (Semi-Dull)
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Englo (Dull)
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Jetspun (Color Yarns)
/F	....	....	....	....	15	....	....	15	....	....	....	15	....	15	Skyloft
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
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	....	....	75	100*	....	....	....	150	....	....	....	....	....	....	Avisco, Bri., Dull & Semidull,
	....	....	....	200*	....	....	....	150*	....	....	....	....	....	....	Colorspun, *Avicron
	....	....	....	....	....	....	....	300*-980*	....	....	....	....	....	....	
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Bright
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Dull
															*Thick & Thin
	....	....	....	100	....	....	....	150	....	....	....	....	....	....	Bright
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	and Dull
	....	240	....	....	480	....	....	....	....	....	....	....	....	....	Thick and Thin
	....	....	16	....	....	....	....	....	....	....	....	....	....	....	#77 Rayon
	....	360	....	....	720	....	....	....	....	....	....	....	....	....	Ondelette
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Civona
	....	....	....	100	....	....	....	150	....	....	....	....	....	....	Bright & Dy-Lok (Colored) Yarn
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Semi-dull Luster #4
	....	....	1250/1/0	....	....	....	....	....	....	....	....	....	....	....	Strawn® Bright and Dull
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	New Bray
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	New Dull
			Flat Straw												
	....	....	....	92	....	....	....	....	....	....	....	....	....	....	Bright,
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Xtra-dull
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Bright,
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Veri-Dul
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Avisco, Bri, & Dull
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Avisco Fiber 25
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Avisco Colorspun
	....	....	....	80	....	120	....	120	160	160	200	....	....	....	Bright & Dull
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Type F
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Celaperm
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Thick & Thin
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Bright & Dull—Bulked
	....	....	....	88	....	....	....	132	....	....	....	....	....	....	Type 20
	....	....	....	88	....	....	....	132	210	....	....	....	....	....	Bright &
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Dull
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Thick & Thin "Acele"
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Color
	....	....	....	....	....	....	....	....	....	*Black only	....	....	....	....	Sealed
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	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Bright & Dull
	....	....	....	20 D/F	....	....	....	....	....	....	....	....	....	....	Estron
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	....	....	....	20 D/F	....	....	....	....	....	....	....	....	....	....	Chromspun
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Thick & Thin Estron
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Thick & Thin Black Chromspun
	7 D/F	....	....	....	16 D/F	....	....	....	....	....	....	....	....	....	Lofted Estron
	7 D/F	....	....	....	16 D/F	....	....	....	....	....	....	....	....	....	Lofted Chromspun
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Estron Crystal
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Chromspun Crystal
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Sculptured & Loftura Estron
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Sculptured & Loftura Chromspun
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Arnel
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Arnel Thick & Thin

TABLE 2 — INTERMEDIATE, HIGH-TENAC

DENIERS	30	40	50	60	90	100	120	150	200	270	300	400	450	600	900	1100	1150	116
Am. Enka	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
	....	....	....	....	....	....	....	....	....	....	120	....	....	....	120	480	....	....
	....	....	....	....	....	....	....	....	....	....	40	....	....	80	120	....	....	....
Am. Viscose	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	980	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	490	....	....
	....	....	....	....	....	30	....	40	75	....	120	....	120	234	350	....	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	60	....	....	980	....	....
Beaunit Mills Coosa Pines Div.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Celanese Corp. of Am.	40	....	....	80	120	....	160	180	....	360	360	....	....	....	....	....	....	....
	....	....	....	....	....	....	....	....	....	....	280	400	....	....	....	....	....	....
Du Pont	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
	....	20	20-35	....	....	....	....	60	....	....	120	....	180	240	....	....	....	480
Ind. Rayon	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	....	....	....	40	....	....	80	....	....	....	....	480	480	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
No. Am. Rayon	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	720	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE 3 — CELLULOSI

Deniers	*Length in inches*	*Luster*	*Crimp*	*Spinning System*
RAYON				
AMERICAN ENKA				
1.5	1¼	bright & dull	regular	Cotton
1.5	1-9/16, 2	bright & dull	regular	Cott. & Non-Wov.
3.0	1-9/16	bright & dull	regular	Cotton
3.0	2	bright & dull	regular	Cott. & Woolen
3.0	2½	bright	regular	Cott. & Woolen
4.5	1-9/16	bright	high	Cotton
6.5	2	dull	high	Cott. & Woolen
6.5	3	bright	high	Cott. & Woolen
8.0	1-9/16, 3, 4½	bright	high	Carpet
15.0	3	bright	medium	Carpet
15.0	3, 4½, 6	bright	high	Carpet
15.0	3	dull	high	Carpet
AMERICAN VISCOSE				
1.00*	1-9/16	bright	none	Cotton
1.25	2	dull	yes	Cotton
1.50	1⅛, 1-9/16 & ½ SSB	bright	none	Cotton
1.50	1-9/16, 2	bright & dull	none	Cotton
3.00	1-9/16	bright & dull	with & without	Cotton
3.00	2	bright & dull	with & without	Cott. & Wool
3.00	2½	bright & dull	none	Cott. & Wool
5.50	1-9/16	bright & dull	yes	Cott. & Wool
5.50	2	bright & dull	with & without	Cott. & Wool
5.50	5 to 7	bright & dull	none	Worsted
8.00	1-9/16, 3	bright	yes	Carpet
15.00	3, 4, 5 to 7	bright & dull	yes	Carpet
8.00	1-9/16	bright	with & without	Carpet
15.00	4	dull	with & without	Carpet
22.00	4	bright & dull	yes	Carpet
1.00	1-9/16	Bright XL	none	Cotton
1.50**	1-9/16	Bright XL	none	Cotton
1.50	2	Bright XL	none	Cotton
15.00	3	Bright XL	none	Cotton
1.50	1-9/16	Colorspun	none	Cotton
3.00	2	Colorspun	none	Cotton
15.00	3	Colorspun	yes	Carpet
8.00	3	Smooth	none	Carpet
15.00	3 & 5-7	Brt. Smooth	none	Carpet

* 15% over regular strength; all others listed, regular strength.
** 30% stronger dry, 50% stronger wet.

COURTAULDS (ALABAMA) INC.				
1.5	1⅛, 1¼, 1-9/16, 2, 2½	bright & dull	none	Cotton
3.0	1¼	bright & dull	none	Cotton
3.0	1-9/16	bright & dull	yes	Cotton
3.0	2	bright & dull	yes	Cott. & Wool
5.5	1⅛	bright	none	Cotton

ITY and TIRE CORD YARNS

5	1200	1230	1250	1500	1530	1600	1650	1725	1780	1800	2200	2400	3300	4400	TYPES
	....	....	....	....	....	....	1100	....	....	....	1440	....	....	....	Tyrex Viscose Yarn
	....	720	....	....	....	1100	1100	....	....	1100	1440	....	....	....	Suprenka
	....	480	....	....	....	....	720	....	....	....	960	....	....	....	Tempra
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Jetspun
	....	....	....	....	....	....	1500	....	....	....	1500	....	....	....	Tyrex Viscose Yarn
	....	....	....	....	....	....	980	....	....	....	980	....	....	....	Avisco Tire
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Rayflex
	....	....	980	980	....	....	980	....	1500	....	980	....	3000	3000	Super Rayflex
	....	....	....	....	....	....	720	....	....	....	....	....	....	....	Tyrex Viscose Yarn
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Rayon: Fortisan
	....	....	....	....	....	....	....	....	....	....	....	also 800 and 1600			Fortisan-36
	720	....	....	....	960	960	1100	....	....	1100	1440	1440	....	....	Super Cordura
0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Cordura
	....	....	....	....	....	....	1100	....	....	....	....	....	....	....	Tyrex Viscose Yarn
	....	....	....	....	....	....	....	....	....	....	720	....	1440	1440	
	....	....	....	....	....	....	720	720	....	....	1000	....	....	2000	Tyron 200
	....	....	....	....	....	....	....	....	....	....	2000	....	....	4000	
	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Tyrex Viscose Yarn
	....	....	....	....	....	....	720	....	....	....	....	....	....	....	

C STAPLE

Deniers	*Length in inches*	*Luster*	*Crimp*	*Spinning System*
5.5	1-9/16, 2, 3	bright & dull	with & without	Cotton
5.5	2	bright & dull	yes	Cott. & Wool
5.5	3	bright & dull	yes	Wool
8.0	3	bright & dull	yes	Wool
8.0	6	bright & dull	yes	Worsted
15.0	3	bright & dull	yes	Wool
15.0	6	bright & dull	yes	Worsted
1.5	1⅛, 1-9/16	Coloray	none	Cotton
3.0	2	Coloray	none	Cott. & Wool
1.5	1⅛, 1-9/16	Black Coloray	none	Cotton
3.0	1⅛, 1-9/16	Black Coloray	none	Cotton
3.0	2	Black Coloray	none	Cott. & Wool
5.5	1-9/16, 2	Black Coloray	none	Cott. & Wool
5.5	3	Black Coloray	none	Wool
5.5	6	Black Coloray	none	Worsted

Corval cross-linked Rayon in 3 den. 1-9/16 & 2" and 5½ den. 2 & 3" all semi-dull crimped.
Topel cross-linked Rayon in 1½ den. 1-9/16 & 2" bright and 3 den. 2" dull.

HARTFORD FIBRES CO.

1.5 3.0	1-9/16 & 2	bright & dull	none	Cotton
8.0	3 & 6	bright	yes	Cott., Wool, Flax
15.0	3, 4½ & 6	bright & dull	yes	Cott., Wool, Flax
8.0	3 & 6	Kolorbon	yes	Cott., Wool, Flax
15.0	3 & 6	Kolorbon	yes	Cott., Wool, Flax
1.0	1-9/16	Zantrel Polynosic	none	Cotton
1.5	1-9/16 & 2	Zantrel Polynosic	none	Cotton
3.0	1-9/16 & 2	Zantrel Polynosic	none	Cotton

NORTH AMERICAN RAYON CORP.

"Narcon"—Super-High Tenacity Rayon Staple

Narcon #1 (High Shrinkage, High Bulking)

1.5	1.5 to 4	bright	none	Cott. & Wool

Narcon #2 (Regular Shrinkage)

1.5	1.5 to 4	bright	yes	Cott. & Wool
3.0	1.5 to 4	bright	yes	Cott. & Wool

ACETATE

CELANESE FIBERS CO.

2.0 3.0 5.5 8.0 12.0 17.0 35.0 50.0	any length	bright & dull	yes	all systems

Arnel Triacetate available in 2.5 & 5.0 den. and Arnel 60 in 1.5 & 3.0 den. in 1.5 & 2 inch.

TABLE 4 NON-CELLUL

Deniers	Length in inches	Luster	Crimp	Spinning Systems
Acrilan Acrylic Fiber—*THE CHEMSTRAND CORP.*				
1.0 (Type 16 only) 2.0 2.5 hi-bulk 2.5 } (Dope-dyed Black) 3.0 } 3.0 5.0 8.0 15.0	1-9/16 to 5	bright or semi-dull	yes	all systems
	The above types of staple fiber also available in Acrilan 16. Acrilan is also produced as Fiberfill			
Creslan Acrylic Fiber—*AMERICAN CYANAMID CO.*				
2.0	1¼ to 4½			
3.0	1½ to 6	bright & semi-dull	yes	all systems
5.0	1½ to 4½			
15.0	2 to 6			
Dacron Polyester Fiber—*DU PONT*				
1.50	1¼, 1½			
2.25	1¼, 1½, 2, 2½, 3 & 4½			
3.00 } 4.50 } 6.00 }	1¼, 1½, 2, 2½, 3 & 4½	semi-dull	yes	
Fiberfill Type 61 Industrial staple—45% shrinkage—3.0 and 6.0 denier. Type 64 pill resistant, more dyeable staple primarily for suiting fabrics. Type 54 semi-dull, normal tenacity. Color-sealed (black only) in 2.25 and 3.0 deniers.				
Darvan Nytril Fiber—*CELANESE FIBERS CO.*				
1.5 2.0 3.0 4.5 6.0 8.0	1½ to 4½	bright or semi-dull	set or unset	all systems
Dynel Modacrylic Fiber—*UNION CARBIDE CHEMICALS CO.*				
2.0 3.0 6.0 12.0 24.0	any length from 1¼-5	semi-bright	yes	all systems
	Produced in natural and dope-dyed colors			
Fortrel Polyester Fiber—*CELANESE FIBERS CO.*				
1.5 3.0 4.5 6.0	1½ 2 & 3	semi-dull	yes	all systems
Kodel Polyester Fiber—*EASTMAN CHEMICAL PRODUCTS*				
1.50 2.25 3.00 4.50	any length	semi-dull	yes	all systems
Nylon —*DU PONT*				
1.5	1⅛, 1½, 2, 2½, 3, 4½	semi-dull	yes	
2.3	1½	Type 420		
3.0	1⅛, 1½, 2, 2½, 3, 4½	bright & semi-dull	yes	all systems
6.0	1⅛, 1½, 2, 2½, 3, 4½	bright	yes	
15.0	1½, 3, 4½, 6½	bright & dull	yes	
INDUSTRIAL RAYON CORP.				
1.5		bright & semi-dull	yes	
3.0		bright & semi-dull	yes	
6.0	1-1/16 to 9	bright & semi-dull	yes	all systems
8.0		bright & dull	yes	
15.0		bright & dull	yes	
22.0		bright & dull	yes	

Deniers	Length in inches	Luster	Crimp	Spinning Systems
Orlon Acrylic Fiber —*DU PONT*				
1.0	1½, 2, 2½ & 3	semi-dull		
2.0		semi-dull & bright	yes	
3.0		semi-dull & bright		
4.5	1½, 2, 2½, 3 & 4½	semi-dull		
6.0		semi-dull & bright		
10.0		semi-dull & bright		
All available in regular or high shrinkage.				
Color-sealed (black only), in 3.0 denier, 6.0 denier and 10.0 denier.				
Type 25—2.5 denier, semi-dull, regular shrinkage.				Cotton/Rayon
Type 39—mixed denier, variable cut lengths.				Woolen
Type 39A—mixed denier (fine), variable cut length.				Woolen
Type 39B—mixed denier (heavy), variable cut length.				Woolen
Saran —*NATIONAL PLASTICS PRODUCTS CO.*				
16				
22	1-8		yes	all systems
30				
45				
Teflon —*DU PONT*				
6.67	½ to 5			
Verel, Modacrylic Fiber—*EASTMAN CHEMICAL PRODUCTS*				
Types A, B, C and D				
2				
3				
5				
8	any length	dull FR & bright	yes	all systems
12				
16				
20				
24				
Type III				
3	any length	dull FR & bright	yes	all systems
Type HB				
3				
5	any length	dull FR & bright	yes	all systems
8				
Vinyon —*AMERICAN VISCOSE CORP.*				
1.5	1½	bright	slight	
3.0	½	bright	slight	
3.0	1¼	bright	slight	all systems
3.0	2	bright	slight	
5.5	1	bright	slight	
5.5	3½	bright	slight	
Vycron Polyester Fiber —*BEAUNIT MILLS, INC., FIBERS DIV.*				
1.5	1½, 2.0, 3.0, 4.0	semi-dull	yes	all systems
3.0				
Zefran Acrylic Fiber—*THE DOW CHEMICAL CO.*				
2.0	1½-3			
3.0	1½-4½	bright & semi-dull	yes	all systems
6.0	1½-4½			
Type W-2 (average denier about 2.5)				Woolen
Type W-4 (average denier about 4.5)				Woolen

NOTES TO TABLES

Cellulosic Yarns

Acetate

AMERICAN VISCOSE unchanged (Table 1)

CELANESE FIBERS shows two new yarns 240/80 and 450/120, both in bright and dull. Their Arnel triacetate line has been augmented by two thick & thin yarns, while 120/32 was discontinued. (Table 1)
In staple, the regular Arnel is now available in 2.5 and 5.0 den., and Arnel 60 in 1.5 and 3.0 den. (Table 3)

DU PONT has discontinued its 100/22 thick & thin, 100/24 and 100/40 semi-dull, and 2700/132 dull yarns. The 900/44 and 70 color-sealed Type C yarns are available in black only. (Table 1)

EASTMAN CHEMICAL PRODUCTS discontinued 55/36, 100/34, and 120/49 Estron, 2700/16 D/F Lofted Chromspun and 5300/16 D/F Lofted Estron and Chromspun yarns. They added 220/4 D/F Estron Sculptured and Loftura, 330/4 D/F Estron and Chromspun Sculptured and Loftura, 700/4 D/F Estron and Chromspun Lofted, and 1800/20 D/F Estron and Chromspun yarns. (Table 1)

Rayon

AMERICAN BEMBERG unchanged (Table 1)

AMERICAN ENKA made no changes in their regular filament yarns. In high tenacity and tire cord yarns they added 2200/1440 to their Tyrex line, also the following Suprenka yarns: 1100/720, 1230/720, 1600/1100, 1800/1100, and 2200/1440. (Table 2)
Their staple line shows quite some changes. (Table 3)

AMERICAN VISCOSE discontinued 50/20, 125/50, 300/15, 300/234, 600/30 and 900/50 yarns and added 450/60, 1200/75, and the following Avicron yarns 1800/100 and 200 and 2700/150, 300 and 980. (Table 1)
In the high-tenacity line there is a new 2200/1500 Tyrex yarn, a 100/30, 150/40 and 200/75 Rayflex, and 450/60, 1500/980, 1780/1500, 3300/3000 and 4400/3000 Super Rayflex yarns. (Table 2)
The staple yarns show the addition of 3 Bright XL yarns. (Table 3)

BEAUNIT MILLS discontinued the 1650/1100 Tyrex yarn. (Table 2)

CELANESE FIBERS added 3 new yarns: 150/40, 250/60, and 300/50 (Table 1)

COURTAULDS is offering staple of its Corval and Topel cross-linked rayon. (Table 3)

DU PONT discontinued its 50/20 bright & dull and its 600/16 #77 rayon, and changed the name of its Ondule yarn to Ondelette. (Table 1)
There were no changes in its high-tenacity yarn line. (Table 2)

HARTFORD FIBERS has added a new high-modulus Zantrel polynosic staple fiber. (Table 3)

INDUSTRIAL RAYON eliminated its 900/510 yarn. (Table 1)

NEW BEDFORD is furnishing its 150 den. monofilament yarn also in dull and has added a 300 den. monofilament and a 1200 den. flat straw. (Table 1)

NORTH AMERICAN RAYON has added a 75/10 Xtra-dull yarn (Table 1) and discontinued the 1.0 and 2.3 den. type of its Narcon #1 and 1.0 den. of Narcon #2 staple. (Table 3) In tire cord, they dropped the 1650/1100 Tyrex yarn. (Table 2)

SKENANDOA reports no changes.

Non-Cellulosic Yarns

Acrilan

CHEMSTRAND added a type 16 and 2 dope-dyed black staple yarns (Table 4) and a dope-dyed black to its tow line. (Table 6)

Creslan

AM. CYANAMID has made no changes in the staple and tow production of this fiber. As far as the yarn itself is concerned, the company informs us that a bright luster fiber of exceptional purity has been developed for the "luminescent look" in silky, knitted and woven fabrics.

Dacron

DU PONT added a 2.25 den. staple yarn in various lengths, a type 54 semi-dull, normal tenacity yarn and 2 color-sealed black yarns. (Table 4) Their tow line shows the addition of 2.25 den. and 2 color-sealed black yarns. (Table 6)

Darvan

CELANESE, which acquired the fiber from B. F. Goodrich, reports no changes in the staple production of this nytril fiber. (Table 4) The tow production also remains unchanged. (Table 6)

Dynel

UNION CARBIDE has made no changes in the staple and tow production of this fiber. (Tables 4 & 6)

Fortrel

CELANESE informs us that Fiber Industries, Inc. is now producing at Shelby, N. C. Fortrel polyester staple and tow, as shown in Tables 4 & 6. Filament yarn and fiberfill will be available in the future.

Kodel

EASTMAN is offering its polyester fiber in a number of deniers in staple and tow form. (Tables 4 & 6)

Nylon

ALLIED CHEMICAL added a number of new deniers to its Caprolan nylon line as shown in Table 5.

AMERICAN ENKA eliminated 6 and added 9 normal tenacity yarns. (Table 5) They are producing their new "Blanc de Blancs" extra white, semi-dull yarn in deniers of 40/8, 50/13 70/32, 100/32, 140/32, 140/64 and 200/32. High tenacity yarns of 210/32 and 840/140 bright will be available by the end of 1960. Enka discontinued the manufacture of nylon staple.

CHEMSTRAND dropped 6 yarn types and added 70/20 and 90/26 yarns. (Table 5)

DU PONT added a 21/3 regular and a 260/20 color-sealed black yarn. (Table 5)

FIRESTONE SYNTHETICS Co., formerly Firestone Plastics Co., is producing monofilament nylon as shown in Table 5. In addition they are also making 840 den. multifilament nylon yarn for tire cord.

POLYAFIL, INC. of Scranton, Pa. is also producing nylon monofilament yarns, however no technical data on their types have been available.

Orlon

DU PONT added a 10 den. color-sealed black to its staple and tow line. (Tables 4 & 6)

Polyethylene, Polypropylene

The changes as to types and sizes of these fibers are too numerous to be listed here and can be seen in Table 5.

AVISUN CORP. informs us that at present their operation is still only developmental in size and scope.

AMERICAN THERMOPLASTICS appears for the first time as producer.

DAWBARN BROTHERS is now producing a "controlled slub" monofilament polypropylene and multifilament yarns of 50 d.p.f. Development work on finer d.p.f. yarns is in progress. In polyethylene high-shrink monofilament yarns of 400 and 600 den. are in advanced stage of development.

NATIONAL PLASTICS PRODUCTS is now also extruding polyethylene and polypropylene yarns.

REEVES BROTHERS, during 1959, has started production of low denier polypropylene fibers. The deniers of these fine fibers are not standardized as yet. Individual fibers vary between 3 and 22 den. and are supplied in form of multifilament yarn, staple and tow. Otherwise, their production remained unchanged.

SOUTHERN LUS-TRUS, in addition to Saran monofilaments, is now also extruding polypropylene and polyethylene yarns.

U.S. RUBBER shows completely revised data of their U.S. Royalene yarns.

VOGT MANUFACTURING CORP. of Rochester, N. Y. is also producing polyethylene and polypropylene yarns, but since no data on their production have been received, they do not appear on our Table.

Rovana

DOW CHEMICAL reports no changes in the production of this fiber. (Table 5)

Saran

BOLTA PRODUCTS DIV. of General Tire & Rubber Co. have discontinued the production of these monofilament yarns.

Spandex Elastic Yarns

GLOBE MANUFACTURING CO. expects to produce their yet unnamed elastic yarn on a pilot plant basis shortly, with samples available on a request basis. Gauges will be from 100-200.

Verel

EASTMAN has added to its staple line Type HB which comes in 3, 5 & 8 den. (Table 4)

Vinyon

AMERICAN VISCOSE added a 1.5 den. staple yarn. (Table 4)

Vycron

BEAUNIT MILLS dropped the 1.0 den. of its staple which is available in semi-dull only. (Table 4)

Zefran

DOW CHEMICAL added to its staple line 2 new yarns, Type W-2 and Type W-4. (Table 4)

Glass Fibers

Aside from additions and deletions of yarn types, none of the producers in our Table 5 announced any special changes in their production.

MODIGLASS FIBERS, INC. are also producers of fiber glass, but since no information on their production has been received, they are not included in the Table.

FAMCO, INC. of Louisville, Ky., another textile glass yarn producer of whose production no data were available when this Survey was compiled.

Metallic Yarns

DOW CHEMICAL is offering a new type Lurex 50-C. (Table 7)

STANDARD YARN MILLS has added Lame-Non Laminated yarn.

NYLCO PRODUCTS, INC. of Clinton, Mass. is making metallic yarns, but could not be included on our Table, since no technical data on their production has been received.

TABLE 6 TOW

Cellulosic

Acetate

CELANESE FIBERS CO.

Filament Denier	Number of Filaments	Total Denier
2.0		
3.0		
5.5	available in various deniers	
8.0		
17.0		
50.0		

Bright and dull, crimped and uncrimped.

Triacetate Fiber Arnel

CELANESE FIBERS CO.

Filament Denier	Number of Filaments	Total Denier
2.5		114,000
5.0		180,000

Rayon

AMERICAN VISCOSE

Filament Denier	Number of Filaments	Total Denier
1.5, 3.0, 5.5	bright & dull	200,000
9.0	bright	

CELANESE FIBERS CO.

Filament Denier	Number of Filaments	Total Denier
1.5		213,000
3.0		200,000
5.5		200,000
8.0		207,000

Bright and dull, crimped and uncrimped.

NORTH AMERICAN RAYON CORP.

2200 den. 960 fil. and 2000 fil. and 4400 den. 2934 fil. and 2000 fil.
Bright super high tenacity.

Non-Cellulosic

Acrilan Acrylic Fiber

THE CHEMSTRAND CORP.

Filament Denier	Number of Filaments	Total Denier
2.0		240,000
2.5 Hi-Bulk		360,000
3.0		432,000
3.0 Dope-dyed Black		480,000
5.0		500,000
8.0		360,000
15.0		675,000

Semi-dull.
All deniers except 15.0 den. also available in Acrilan 16 in semi-dull.

Creslan Acrylic Fiber

AMERICAN CYANAMID CO.

Filament Denier	Number of Filaments	Total Denier
2.0		
3.0	bright or semi-dull, crimped	480,000
5.0		480,000
15.0		600,000

Dacron Polyester Fiber

DU PONT

Filament Denier	Number of Filaments	Total Denier
1.5		550,000
2.25, 3.0, 4.5, 6.0		all 450,000

Semi-dull.
Color-Sealed (black only) in 2.25 & 3.0 deniers.

Darvan Nytril Fiber

CELANESE FIBERS CO.

Filament Denier	Number of Filaments	crimpset	not crimpset
1.5		100,000	90,000
2.0		100,000	90,000
3.0		100,000	90,000
4.5		100,000	90,000

Dynel Modacrylic Fiber

UNION CARBIDE CHEMICALS CO.

Filament Denier	Number of Filaments	Total Denier
2	90,000	
3	60,000	all
6	30,000	180,000
12	15,000	
24	7,500	

semi-dull

Fortrel Polyester Fiber

CELANESE FIBERS CO.

Filament Denier	Number of Filaments	Total Denier
1.5		
3.0	semi-dull	220,000
4.5		
6.0		

Kodel Polyester Fiber

EASTMAN CHEMICAL PRODUCTS

Filament Denier	Number of Filaments	Total Denier
1.5		
2.25		all
3.0		450,000
4.5		

Nylon

DU PONT

Filament Denier	Number of Filaments		not heatset	heatset
3.0	semi-dull & bright	143,333	430,000	455,000
6.0	bright	55,000	330,000	345,000
15.0	bright & dull	28,333	425,000	

Orlon Acrylic Fiber

DU PONT

Filament Denier	Number of Filaments		Total Denier
1.0	semi-dull	420,000	420,000
2.0	semi-dull & bright	235,000	
3.0	semi-dull & bright	157,000	all
4.5	semi-dull	104,500	470,000
6.0	semi-dull & bright	78,300	
10.0	semi-dull & bright	57,000	

Color-sealed in black only in 3.0, 6.0 & 10.0 den.
Type 38—4.1 den., 592,000 total den., high shrinkage.

Saran

NATIONAL PLASTIC PRODUCTS CO.

Filament Denier	Number of Filaments	Total Denier
10 to 45		up to 300,000

Teflon

DU PONT

Filament Denier	Number of Filaments	Total Denier
6.67		4,000-6,400

Vycron Polyester Fiber

BEAUNIT MILLS INC., FIBERS DIV.

Filament Denier	Number of Filaments	Total Denier
1.0		1120, 2240
1.5		1260, 1680, 3360
3.0		1260, 1680, 3360

For direct spinning from tow.

Filament Denier	Number of Filaments	Total Denier
1.5		200,000
3.0		200,000

For converters.

Zefran Acrylic Fiber

THE DOW CHEMICAL CO.

Available in experimental quantities only.

TABLE 7 — MET

Producer	Types	Yarn Sizes
DOW CHEMICAL CO.	LUREX (Butyrate) LUREX MM LUREX MF	1/16" to 1/128" supported or unsupported and in all types of put-ups.
	LUREX 50-C	1/64"
FAIRTEX CORP.	FAIRTEX Type 206 (Butyrate) FAIRTEX with Mylar* Metalized 100V and 150V FAIRTEX with Mylar 150F Foil	1/16" to 1/128" either supported or unsupported on cones, spools or tubes. Also in staple or chip form.
MALINA CO.	MALORA (Butyrate) MALORA with Mylar (Metalized) MALORA with Mylar (Foil) Metallic Cellophane Yarn	1/16" to 1/100" either supported or unsupported in all put-ups.
METAL FILM CO.	CHROMEFLEX NL	1/32" to 1/100" yielding to 90000 yards per lb.
	CHROMEFLEX MF	1/16"-1/100"
	CHROMEFLEX MM	1/16"-1/100"
METLON CORP.	METLON No. 400 (cellophane-based)	1/50" and up
	METLON-B (Butyrate type)	1/20" to 1/16"
	METLON-F with Mylar	1/20" to 1/16"
	METLON H.T. Mylar	Same as above.
	METLON ULTRAVAT Mylar	Same as above.
	METLON-V MYLAR	Same as above.
	1) Any of the above are available in Staple or Wink form. *2) Crystal Mist, a translucent semi-iridescent Mylar based yarn available in standard sizes*	
MULTI-TEX PRODUCTS CORP.	DURASTRAN (Foil/Mylar)	1/64" to 1/4"
	ALISTRAN (Cellophane/Foil)	1/100" to 1/4"
	Butyrate	1/64" to 1/4"
	NON-METALLIC	1/64" to 1/4"
REYNOLDS METALS CO.	REYMET MF	1/8" to 1/80"
	REYMET MM	1/8" to 1/80"
	REYMET BF	1/8" to 1/80"
	REYMET CF	1/8" to 1/80"
	All of above available in staple form down to widths of 1/220".	
STANDARD YARN MILLS, INC.	LAME	1/16" to 1/20", also in wider width. Available in staple and flock form.
	LAME with Mylar (Foil)	1/16" to 1/28"
	LAME with Mylar (Metalized)	Same as above All yarns available either unsupported or supported.
	LAME—Non-Laminated Yarn	Same as above.

* Du Pont's polyester film.

TALLIC YARNS

Construction	Colors
Laminated with aluminum foil. Laminated metalized Mylar film. Aluminum foil laminated both sides with Mylar film. Metalized Mylar base protected on both sides by a plastic coating.	Gold and silver and wide range of other colors.
Laminated with aluminum foil. Laminated with Mylar Polyester film. Same as above.	Gold and silver and wide range of other colors, and multi-colors.
Aluminum foil laminate. Metalized Mylar with clear Mylar. Clear Mylar with aluminum foil. Laminate of clear cellophane film to aluminum foil.	Gold and silver. Other colors supplied on special orders.
Non-laminated Mylar. Foil laminated with Mylar. Metalized Mylar laminated with clear Mylar.	Gold, silver and dyeable yarns. Other colors on request. Yarns are also available in silver with special dyeing characteristics.
Aluminum foil laminated between two plies of viscose film. Aluminum foil between two plies of cellulose/acetate/butyrate. Laminate of aluminum foil with Mylar on each side. Foil laminated with special high tenacity Mylar film. Foil laminated with Mylar by special process for extreme sunlight, Fadeometer, and wet processing resistance. Metalized Mylar laminated with one or more plies of metalized or clear Mylar.	Gold and silver, other colors are required. Same as No. 400 Same as above. Gold and silver only. Gold and silver only: other colors on special order. Gold and silver only.
as noted.	
Laminate of aluminum foil and Mylar. Laminate of aluminum foil and cellophane. Laminate of aluminum foil and butyrate. Film types (Mylar, cellophane).	Gold, silver, and full range of colors as well as duet and varigated. Gold, silver, and full range of colors (24) as well as duet and varigated. Gold and silver. All transparent and opaque colors.
Aluminum foil laminated between two plys of Mylar. Metalized Mylar laminated to Mylar. Aluminum foil laminated between two plys of butyrate. Aluminum foil laminated between two plys of cellophane.	Gold and silver and wide range of solid colors and multi-colors. Gold and silver and wide range of solid colors and multi-colors. Gold and silver and wide range of solid colors and multi-colors. Gold and silver and wide range of solid colors and multi-colors. *Special colors on request.*
Aluminum foil laminated between two plastic films. Aluminum foil laminated between two films of Mylar. Mylar film laminated to metalized Mylar film on either one or both sides. Mylar metalized film with non-lamination.	Gold and silver and wide range of other colors. Same as above. Same as above. Same as above.

TABLE 5

DENIERS	7	10	12	14	15	17	20	21	25	28	30	40	50	60	70	80	90	100	110	140	150	200	210	220	250	260	265	270	300	320	3
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	....	....	....	....	....	....	Monofilament yarns in 70, 100 and 124 deniers				....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
Reeves Bros.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.004	....	....	....	....	.006	....	....	....	....	....	....	.008	....	....	
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Johns-Manville Glass Fibers	....	....	....	....	....	....	....	....	....	....	....	....	102	....	....	....	....	102	....	....	....	204	....	....	....	....	....	204	204	....	
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Owens-Corning Fiberglas	....	....	....	....	....	....	....	51	....	....	....	....	102	....	....	....	....	204	....	....	306	204	....	....	....	....	....	....	204	....	
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Pittsburgh Plate Glass	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	204	....	....	....	204	....	....	....	....	....	....	204	....	
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NON-CELLULOSIC

375	380	395	400	410	420	435	450	480	490	500	520	525	540	560	565	590	600	610	630	650	700	710	720	770	780
					64						32														
			68								32														56
			68		68						34												140		51
			68		68						34								102						51
			.010 .010						.008					.012			.012 .008x.020						.005x.019 .001x.120	.010	
10			.010									.006x.019			.012		.012 12/0x.004			.013					
			.009							.008														.010	
	.010L			.010	.010						.006x.020	.008x.020				.012	.008x.020L		.012 .008x.020					.005x.020	
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	.004x.042																								

GLASS

			408 816							408								204 408 612 816 1224							
			408 816							204			204 408					204-408 612-816 122							
			408 816															408 1244							

LULOSIC YARNS

700	710	720	770	780	790	800	815	840	865	915	925	930	950	960	980	990	1000	1040	1050	1100	1120	1200	1225	1250	1400	1500	15
								136											56								
				56														56						56			
		140		51				140										68									
						140		140																			
				51																							
																				250							
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								.014									.009x.030										
			.010												.006x.020					012							
		.005x.019																		.006x.021							
		.001x.120															.001x.157									.001x.235	
													variable*				.009x.030										
			.010													.008x.020L					.015						
			.005x.020									.0145				.015			.009x.030		.012						
									.0145		.015								.009x.030		.008x.020						
																			.009x.030				.009x.036		.013x.030		
																			.009x.030				.009x.030				
			.012							.009x.030						.015					.015						
.013			.014						.0145		.015						.009x.030										
										.015																	
			.010													.006x.0185					.012						
																					1116/.0065x.020						
																							Multifilament yarns in 1240/				
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												.015						.009x.0302									
140																.009x.030											
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ASS YARNS

							816			612													816				30
							1632																				
										1224																	
										1836													1220				
																							1224				
																							2448				
							816			612													816				30
							1632			1836													1224				
																							2448				
										612													816				
										1836													2448				

1540	1580	1610	1650	1680	1730	1750	1810	1850	2000	2050	2100	2465	2500	2520	2770	2920	3000	3320	3624	4000	Type of Yarn
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Caprolan (nylon)
....	....	....	....	272	....	....	....	....	....	....	....	....	....	....	....	....	Also 2100—15000 den.				bright & heat stabilized
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Enka Nylon,
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	dull, semi-dull & bright
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Nylon, dull, semi-dull
....	....	....	....	280	....	....	....	....	....	....	....	....	....	....	....	....	and 15120 den. 2520 fil.				bright & high bright
....	....	....	....	....	....	....	....	....	....	....	....	....	....	420	also industrial yarns 4200/700,						Nylon, various types
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	5040/840, 7560/1260, 10080/1680						
....	....	....	....	280	....	....	....	....	....	....	....	....	....	....	and 15120/2520						
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Nylon, Color-sealed Black
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Dacron, semi-dull
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , bright
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , dull
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Teflon
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.012x.068	....	....	....	....	....	Polyethylene, round & flat
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polypropylene, round & flat
....	....	.015	....	....	....	....	.009x.030	....	....	....	....	....	....	....	....	....	.020	....	....	....	Saran, round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , eliptical
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polyethylene, DLP, round & ribbon
....	....	....	....	....	....	....	....	....	....	....	....	....	variable*	....	....	....	....	....	....	....	Polypropylene, DLP-51, round slub
....	....	....	....	....	....	....	....	....	....	....	variable*	....	....	....	....	....	....	....	....	....	do , flat & ribbon slub
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16/0x.007 and 5/0x.012 in 3000 den.						do , multifil., round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Rovana, Vynilidene chloride
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	tape filament
....	....	....	....	....	....	....	....	....	.020	....	....	....	....	....	....	....	....	....	....	....	Nylon monofilament
....	....	....	.0145	....	....	....	....	....	....	....	....	....	....	....	....	.020	....	....	....	....	Velon, round
....	....	....	....	....	....	....	.009x.030	....	....	....	....	....	....	.013x.030L	....	....	....	....	....	....	do , eliptical
....	....	....	....	....	....	.021	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polyethylene, reg. round
....	.013x.030	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , linear round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , linear eliptical
....	....	....	.020	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polypropylene, round & oval
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Propylene, round & oval
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polyethylene, round & oval
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Nylon, monofil., round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polyethylene, lin., round & oval
....	....	....	.020	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , branched, round
....	....	....	.020	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polypropylene, round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , oval
....	....	....	....	....	....	.011x.027	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polystyrene, flat
....	....	....	....	....	....	.015	....	....	....	....	....	....	....	....	....	.020	....	....	.030	....	Saran, round
/10 and 1300/9			....	....	....	....	....	....	....	also 1860/.00875x.030,				2230/.010x030,		2790/.01275x.030			(all oval)		do , flat & oval
			....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Saran
....	....	....	....	....	....	.020	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Reevon Polyethylene, round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do do , flat
....	....	....	....	.020	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Reevon Polypropylene, round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do do , flat
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	16x.007	....	....	....	Multifilament
....	....	....	.015	....	....	....	....	....	....	....	....	....	....	....	....	.020	....	....	....	....	Saran, round
....	....	....	.009x.030	....	....	....	....	....	....	....	....	....	....	....	....	.013x.030	....	....	....	....	do , eliptical
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polyethylene, round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polypropylene, round & flat
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Polyethylene, round
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , Ribbon
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , Tape
....	....	....	....	....	....	....	....	....	.007	....	....	....	....	....	....	....	.007	....	....	.007	Polypropylene, round
....	....	....	....	....	....	....	....	....	10 ends	....	....	....	....	....	....	....	15 ends	....	....	20 ends	do , Ribbon
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , Tape
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	do , flat
060	....	....	1632	....	....	....	....	1224	....	2040	....	....	....	....	1836	....	....	3264	....	....	Fiber Glass Yarns
....	....	....	3264	....	....	....	....	....	....	....	....	1632	....	....	....	....	....	....	2448	....	(others in den.
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	up to 10,000)
....	....	....	....	....	....	....	....	....	....	....	....	2448	....	....	....	....	....	....	....	....	
....	....	....	....	....	....	....	....	1836	....	....	....	....	....	....	....	....	....	....	....	....	
....	....	....	....	....	....	....	....	....	....	4080	....	....	....	....	....	....	....	....	....	....	
060	....	....	....	....	....	....	....	1224	....	2040	....	....	....	....	1836	....	....	3264	....	....	"Fiberglas" Yarns
....	....	....	1632	....	....	....	....	1836	....	....	....	1632	....	....	....	....	....	....	....	....	
....	....	....	3264	....	....	....	....	....	....	4080	....	2448	....	....	....	....	....	....	2448	....	
....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	Fiber Glass Yarns
....	....	....	....	....	....	....	....	1224	....	....	....	....	....	....	1836	....	....	....	2448	....	

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YARN PRODUCERS SALES OFFICES

Allied Chemical Corp.
Fiber Marketing Dept.
261 Madison Ave.
New York 16, N. Y.

American Bemberg, Beaunit Div.
261 Fifth Ave.
New York 16, N. Y.

American Cyanamid Co.
Fibers Division
111 West 40th St.
New York 18, N. Y.

American Enka Corp.
Enka, N. C.

American Thermoplastics Corp.
750 Union Ave.
Union, N. J.

American Viscose Corp.
Fibers Division
350 Fifth Ave.
New York 1, N. Y.

AviSun Corporation
Post Road
Marcus Hook, Pa.

Beaunit Mills, Inc.
Fibers Div.
261 Fifth Ave.
New York 16, N. Y.

The Carborundum Co.
Buffalo Ave.
Niagara Falls, N. Y.

Celanese Fibers Co.
180 Madison Ave.
New York 16, N. Y.

The Chemstrand Corporation
350 Fifth Ave.
New York 1, N. Y.

Courtaulds (Alabama) Inc.
600 Fifth Ave.
New York 20, N. Y.

Dawbarn Bros., Inc.
Waynesboro, Va.

The Dow Chemical Co.
Textile Fibers Department
Williamsburg, Va.

E. I. du Pont de Nemours & Co., Inc.
Textile Fibers Dept.
Wilmington 98, Del.

Eastman Chemical Products, Inc.
260 Madison Ave.
New York 16, N. Y.

Fair Haven Mills, Inc.
Fair Haven, Vt.

Fairtex Corp.
1808 Liberty Life Bldg.
Charlotte 2, N. C.

Famco Inc.
6200 Strawberry Lane
Louisville, Ky.

Firestone Synthetic Fibers Co.
A Division of Firestone Tire & Rubber Co.
45 Rockefeller Plaza
New York 20, N. Y.

Globe Manufacturing Co.
21 Pleasant St.
Fall River, Mass.

Hartford Fibres Co.
A Division of Bigelow-Sanford
Carpet Co. Inc.
140 Madison Ave.
New York 16, N. Y.

Industrial Plastic Co.
216 Tingley Lane
Metuchen, N. J.

Industrial Rayon Corp.
500 Fifth Ave.
New York 36, N. Y.

Johns-Manville Sales Corp.
Textile Glass Section
22 East 40th St.
New York 16, N. Y.

Malina Company
125 West 41 St.
New York 36, N. Y.

Metal Film Co., Inc.
40 Worth St.
New York 13, N. Y.

Metlon Corporation
Div. of Acme Backing Corp.
432 Fourth Ave.
New York 16, N. Y.

Modiglass Fibers, Inc.
Nicolet Ave.
Florham Park, N. J.

Multi-Tex Products Corp.
56 Elm St.
Newark 5, N. J.

The National Plastics Products Co.
Odenton, Md.

New Bedford Rayon Division
Mohasco Industries, Inc.
New Bedford, Mass.

North American Rayon Corp.
261 Fifth Ave.
New York 16, N. Y.

Nylco Products, Inc.
530 Main St.
Clinton, Mass.

Owens-Corning Fiberglas Corp.
Textile Products
717 Fifth Ave.
New York 22, N. Y.

Pittsburgh Plate Glass Co.
Fiber Glass Division
One Gateway Center
Pittsburgh 22, Pa.

Poliafil, Inc.
311 Palm St.
Scranton 5, Pa.

Polyarns Inc.
545 No. Main St.
Canandaigua, N. Y.

Reeves Brothers, Inc.
1071 Ave. of the Americas
New York 18, N. Y.

Reynolds Metals Co.
6601 W. Broad St.
Richmond 18, Va.

Skenandoa Rayon Corp.
261 Fifth Ave.
New York 16, N. Y.

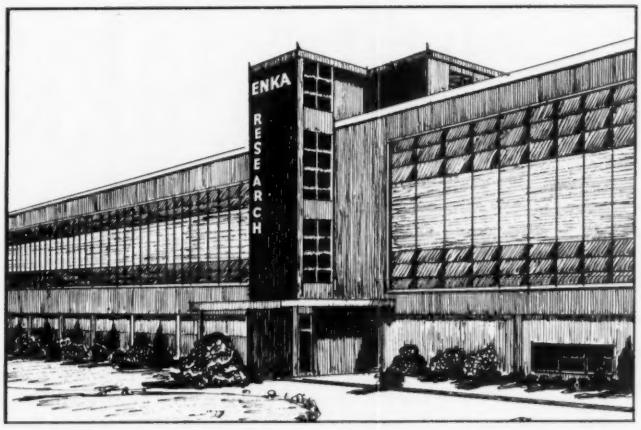
Southern Lus-Trus Corp.
1048 Escambia St.
Jacksonville 6, Fla.

Standard Yarn Mills, Inc.
62-05 30th Ave.
Woodside 77, N. Y.

Union Carbide Chemicals Co.
A Division of Union Carbide Corp.
Textile Fibers Department
270 Park Ave.
New York 17, N. Y.

United States Rubber Co.
Textile Division
1230 Ave. of the Americas
New York 20, N. Y.

Vogt Manufacturing Corp.
100 Fernwood Ave.
Rochester 21, N. Y.



Through successful research... ENKA builds for the future!

WITHIN the walls of the Enka Research Center efforts are continuously directed toward improving Enka's yarns and fibers for a market which demands better and better quality, and developing new yarns to expand Enka's contribution to the textile industry. Through successful research, Enka is building for the future.

Here, quickly, are three major new developments from Enka research – ready to work for you...

NEW ENKA BLANC DE BLANCS™ NYLON

Now, for the first time, a truly white nylon yarn. Another "first" in the polyamid field for American Enka. Blanc de Blancs (white of whites) nylon is created by injecting the whiteness directly into the polymer . . . so that it actually becomes a part of the yarn itself. This yarn has been developed for intimate apparel fabrics and findings marketed in the greige, and for goods in special need of brilliance of white, and for goods that are not normally dyed. There has already been a strong demand for Blanc de Blancs in power net, leno and circular knit foundation garments. Blanc de Blancs nylon deniers currently being offered by Enka are: 40/8, 50/13, 70/32, 100/32, 140/64 and 200/32.

HYDROWARP PIRN for ENKA NYLON

Another step by American Enka to help maintain competitive nylon sales: a new four-pound 13 in. pirn. This new hydrowarp pirn increases net yarn weight per pirn, improves unwinding tensions of the yarn, and reduces operating costs in your mills.

NEW BRIGHT LUSTER STAPLE for ENKA RAYON STAPLE

This new American Enka development has been designed particularly for use in chenille bedspreads, both tufted and woven. In addition to its outstanding processing qualities, this fiber also facilitates the production of chenille bedspreads, exhibiting excellent resilience and bloom.

Whatever your needs in modern yarns and fibers, look to American Enka...for Enka research creates new opportunities for *YOU*.

So many good things begin with

ENKA

American ENKA Corporation, Enka, N. C. • Producer of nylon • rayon • yarns • fibers

NEW YORK OFFICE: 350 Fifth Ave., New York 1, N.Y. • DISTRICT SALES OFFICES: Chattanooga • Greensboro • Providence

Reference Chart

BEMBERG® RAYON NOVELTY YARNS

TYPE YARN	DESCRIPTION	DENIERS	FUNCTION	COLORS	FABRIC END-USE
NUB-LITE®	High-low, non-mechanical, short entangled slub, irregular in size and spacing.	155-160-200-860	Filling with acetate, silk, or Chromspun warps.	Natural for piece-dyed fabrics. 36 direct skein-dyed colors for loom-finished fabrics.	Lower deniers in dress and blouse fabrics. Heavier deniers for draperies, upholstery, bedspreads.
CUPIONI® **MULTI CUPIONI** **MULTI CUPIONI #2**	Longer entangled slub, irregular in size and spacing, but mechanically controlled for the Douppioni silk-look. Multi Cupioni has approximately twice as many slubs as normal Cupioni. Multi Cupioni #2 is a softer yarn, also has duller luster.	70-100-150-285 450-600-940 100 150	Filling with cotton, acetate, silk or Chromspun warps.	Natural for piece-dyed fabrics. 36 direct skein-dyed colors for loom-finished fabrics.	Fabrics for dresses, blouses, slacks, ladies' and men's suits.
LONG TYPE "A" SLUB	Long, parallel, non-entangled slub for the true thick and thin look. Soft hand.	900	Filling with acetate, silk, or Chromspun warps.	Natural for piece-dyed fabrics. 36 direct skein-dyed colors for loom-finished fabrics.	Lower deniers in dress and blouse fabrics. Heavier deniers for draperies, upholstery, bedspreads.
MEASLE YARN	Part tight, part loose filaments with different shrinkage . . . forming loop or boucle effect. In weaving, loops break through surface of fabric for decorative dot effect.	2350-3400	Filling with acetate, silk, or Chromspun warps.	Natural for piece-dyed fabrics. 36 direct skein-dyed colors for loom-finished fabrics.	Lower deniers as filling in dress and blouse fabrics. Heavier deniers for upholstery, draperies, bedspreads.
STRATA SLUB **MULTI-STRATA SLUB** **MULTI-MULTI-STRATA SLUB** **DREAM SLUB**	Torpedo shaped slubs, spaced: Strata 9' apart; Multi Strata 6' apart; Multi-Multi Strata, 6½ Dream Slub 18". MM Strata is similar in appearance to Strata, but slubs are more frequent and shorter spaced.	275-450-600-900-1290-2680 1300 450 2600-5400	Filling with acetate, silk, or Chromspun warps.	Natural for piece-dyed fabrics. 36 direct skein-dyed colors for loom-finished fabrics.	Upholstery, draperies, bedspreads.
FLAIKONA®	Part of the end running normal and part running with flake slub. Similar in softness and appearance to other flake, and will run in filling without being plied with a straight yarn.	300-600-900-450-2000	Filling with silk, cotton, acetate, nylon, Chromspun, Fortisan, Vycron, or Orlon warps. As multi-colored decorative yarn. Plied with any Bemberg yarn.	Natural for piece-dyed fabrics and spun-dyed Supracolor Black.	Upholstery, draperies, bedspreads.

NOTE: CUPIONI—150-285-940 deniers are available in 23 solution dyed colors.
STRATA—600-960 deniers are available in 23 solution dyed colors.

SPECIAL PROCESSED YARNS—The special process can be applied to Bemberg, Vycron or any yarns single end or any combination of yarns. This process gives the yarn a surface interest, softer hand and simulates a spun look.

Bemberg®
ARISTOCRAT® OF RAYON YARN

AMERICAN BEMBERG • Main Office: 261 Fifth Avenue, New York 16, N.Y. • Plant: Elizabethton, Tennessee

Vycron*

POLYESTER FIBER

SPECIFICATIONS
FOR YOUR PERMANENT FILE

VYCRON *Specifications*

FIBER STRUCTURE:
Vycron is a polyester fiber differing from other polyesters in its total chemical constitution and its basic structure. Its structure is designed to give better dyeing properties along with good fiber processing and wearing characteristics.

FIBER PROPERTIES:

	Vycron Staple Fiber
Tensile Strength	*5.6 g/d*
Break Elongation	*35%*
Modulus of Elasticity	*0.5 g/d/%*
Resilience as measured by work recovery	
from 2% extension	*93*
from 5% extension	*44*
from 10% extension	*33*
Toughness	*1.75 gm. cm./cm. den.*
Moisture Absorption	*0.6%*
Specific Gravity	*1.36*

HEAT RESISTANCE:
The heat resistance of Vycron Fiber is good. Melting point is 455°F. Fabrics of Vycron may be ironed safely at temperatures as high as 350°F.

RESISTANCE TO CHEMICALS:
Vycron has good resistance to common solvents and cleaning agents. It is not affected by acids or alkalis normally encountered by apparel fabrics.

RESISTANCE TO WEATHERING:
Good.

FLAMMABILITY:
Vycron will burn slowly but melts and drops off when hanging free.

MILL PROCESSING:
Vycron Fiber can be processed excellently on standard spinning systems. The Fiber has extremely good fiber to fiber cohesion and is exceptionally strong. Yarns spun from it are stronger than yarns spun from other polyesters. Even fine counts perform excellently because of the extra strength and evenness.

DYEABILITY:
The affinity and dyeing rate of Vycron for dispersible acetate colors and developed azoics is slightly greater than for some of the competitive polyesters. When selected dyes are properly applied, good fastness is achieved. Laboratory tests confirmed by commercial runs evidence excellent colorfastness to laundering, hot pressing, hot wet pressing, sublimation, perspiration, gas fading, solvent rubbing, light, and crocking wet and dry.

DIMENSIONAL STABILITY:
To produce a fabric with good dimensional stability, heat setting is necessary. In fabrics where the blend contains a high percentage of rayon or cotton, thermosetting resins or compressive shinking may be necessary.
Heat setting temperatures and equipment suitable vary, depending on the particular fabric. Generally we recommend somewhat lower heat setting temperatures than for other polyesters. A maximum of 365° for 45 seconds has been found adequate.

WASH & WEAR PERFORMANCE:
Vycron fabrics and fabrics made with proper blends of other fibers show remarkable wrinkle resistance and crease retention after wash and wear tests.

PILLING:
Vycron has outstanding resistance to pilling. Even though its strength is high, its basic physical structure is such that pilling does not normally occur.

BLEND LEVELS:
Blends are permitted with Cotton or other synthetics as long as the minimum Vycron is 50% of the total blend.

VYCRON POLYESTER FIBER is now being produced in the following forms:

STAPLE in 1½ and 3 denier, for apparel and industrial fabrics.

SPECIAL PROCESS YARNS Vycron filament yarn, combined with other yarns such as Bemberg® or viscose rayons, for unusual surface interest in apparel and decorative fabrics.

TOW for Pacific Converters in 1½ and 3 denier for apparel and industrial fabrics.

TOW for Direct Spinners . . . to be spun into yarns for blouses, skirts, underwear, dresses, suits, shirts, rainwear and industrial fabrics.

CONTINUOUS FILAMENT YARNS 420 denier and greater, in 1½ and 3 denier per filament.

VYCRON is America's only polyester fiber tested and certified under a regular program by the U. S. Testing Company.

BEAUNIT MILLS, Inc.
Fibers Division
261 Fifth Avenue, New York 16, N. Y.

*Registration applied for

The reason is performance . . . not promise. All the way down the line from spinning to weaving to cutters to consumers Creslan is growing in popularity . . . moving steadily into well known lines of quality merchandise. There's good news for you, too, in Creslan. Learn about its many important advantages. Send for our TECHNICAL DATA BULLETIN. Creslan acrylic fiber is a product of American Cyanamid Company, Fibers Division, New York. CYANAMID

Offices: 111 West 40th St., N. Y.; 3333 Wilkinson Blvd., Charlotte, N. C.; 2300 South Eastern Ave., Los Angeles, Cal.; 40 Fountain St., Providence, R. I.

FIND OUT WHY MORE & MORE MILLS ARE USING

Creslan®

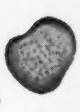
ACRYLIC FIBER

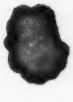
THE NEWEST OF THE ACRYLICS

AVISCO®

"THERE'S AN AVISCO RAYON STAPLE FOR EVERY TEXTILE NEED"

The increasing variety of types, deniers, lusters and lengths of Avisco rayon staple is carefully engineered to fit the most exacting requirement of the textile designer. Static-free, moth and mildew-resistant, and virtually lint-free, rayon will readily accept a wider range of colors than any other fiber. Here the basic types of Avisco rayon staple are listed with their specialized characteristics.

TYPE	CROSS-SECTION OF FIBER	PROPERTIES	END USES
REGULAR RAYON		Truly the basic fiber of the rayon industry, it gives fabric soft hand and luster. Can be used alone or in blends. Its high moisture absorption makes it ideal for blending with the synthetics.	Uses for regular rayon are legion. It is by all odds the most popular fiber of the apparel industry.
CRIMP		This rayon is modified chemically to produce a permanent crimp which creates a lofty, wool-like hand in fabrics.	Tufted products and brushed fabrics. Also widespread uses in upholstery, apparel, automotive and nonwoven fabrics.
SMOOTH (SUPER L*)		A smooth, long-wearing, soil-resistant carpet fiber, easily blended with wool, nylon or acrylics. Easily cleaned.	Super L is specifically a carpet fiber used in both looped and cut pile fabrics, tufted or woven.
V-22 INTERMEDIATE STRENGTH		Similar to regular rayon staple in nearly every respect, except that it is stronger.	Industrial fabrics and sheer apparel fabrics.
XL (AVRON*)		Very high strength. Adaptable to many finishes. Stronger after wash and wear treatment than cotton. In fabrics, XL has a soft, luxurious hand and an even appearance.	The strength of XL is such that it is the choice of the rayons for industrial uses such as belting. In addition it has broad application in apparel, drapery, upholstery and other home furnishings fabrics.
FIBER 40 (AVRIL*)		A permanently stable rayon fiber, similar to cotton in strength and elongation. Can be mercerized and Sanforized.	Knit or woven fabrics where stability is a requirement. Ideal in drapery warps. Wide application in apparel fabrics, either 100% or in blends.

TYPE	CROSS-SECTION OF FIBER	PROPERTIES	END USES
RD-100 (AVLIN*)		Creates a firm linen-like hand, due to its ability to interweave tightly with itself or other fibers. Shows unusually high luster.	Apparel fabrics, in blends with synthetic and natural fibers.
RD-101		A rayon staple fiber with exceptional self-bonding characteristics.	Various specialty papers and nonwoven fabrics.
SHORT CUT		This is essentially a mechanical development to produce fibers of ½" or less in length—using any of the Avisco fibers.	Used principally in specialty paper and nonwoven fabrics, and in reinforcing foams and rubber.
COLORSPUN*		Colorspun is a solution-dyed fiber noted for its colorfastness and brilliance of colors. Colorspun fibers can be blended to produce at a low cost a wide range of colors from a small selected group of basic colors.	Used in wide variety of apparel and home furnishing applications, particularly draperies, upholstery and carpets.
MEDICAL STAPLES		The uniformity, cleanliness and absorbency of these rayons plus their high whiteness commend these fibers to the medical profession.	Absorbent balls, bandages, padding sponges, surgical dressings, wipers, gauze, masks, personal products.

*Trademark of American Viscose Corporation

AVISCO

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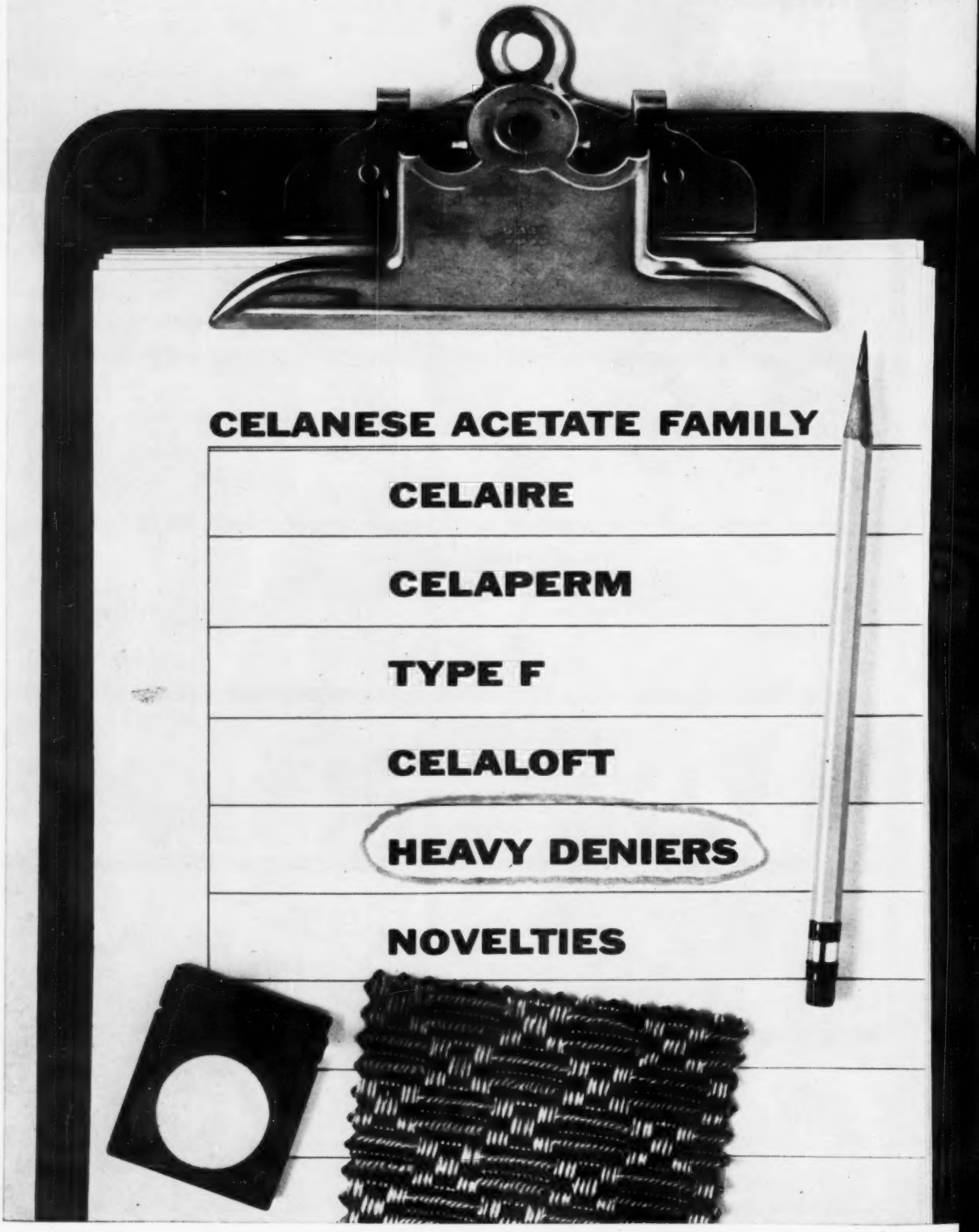
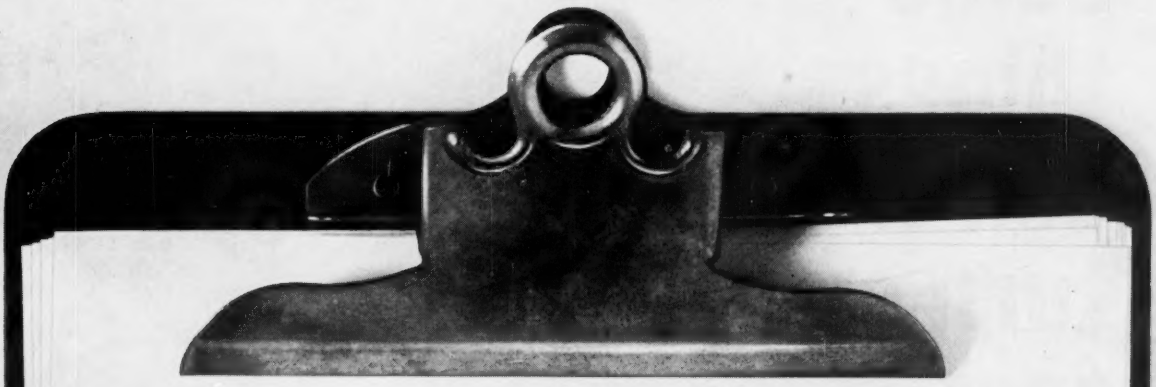
ACETATE...one


CELANESE ACETATE FAMILY
CELAIRE
CELAPERM
TYPE F
CELALOFT
HEAVY DENIERS
NOVELTIES

# of today's most versatile textile fibers



HEAVY DENIER ACETATE is specifically engineered by Celanese to provide positive advantages in upholstery fabrics. It adds the bloom and beauty that are immediately appealing to consumers. The quality is outstanding. What's more, it's priced to meet the volume market. And it has the excellent uniformity that permits top economy in plant operation.

900, 1800, 2700 and 3000 deniers are available in this type of yarn. New fabric constructions with heavy deniers have a broad future and Celanese is always interested in working with you in their development. Celanese Fibers Company, Box 1414, Charlotte 1, N. C.

Celanese® Celaire® Celaloft® Celaperm® Type F T.M.

Celanese Fibers Company is a division of Celanese Corporation of America.

Acetate...a Celanese contemporary fiber

DISTRICT SALES OFFICES: 180 Madison Avenue, New York 16, N. Y.; 15 N. Broadway, Des Plaines, Ill.; Western Merchandise Mart., Room 478, San Francisco, Calif.; P. O. Box 1414, Charlotte 1, N.C.; 200 Boylston St., Chestnut Hill 67, Mass.; 3130 Maple Drive, N.E., Atlanta 5, Ga.

EXPORT SALES: Amcel Co., Inc., and Pan Amcel Co., Inc., 180 Madison Ave., New York 16.

IN CANADA: Chemcell Fibers Limited, 1600 Dorchester Street West, Montreal, Quebec.

Some things don't turn over fast...

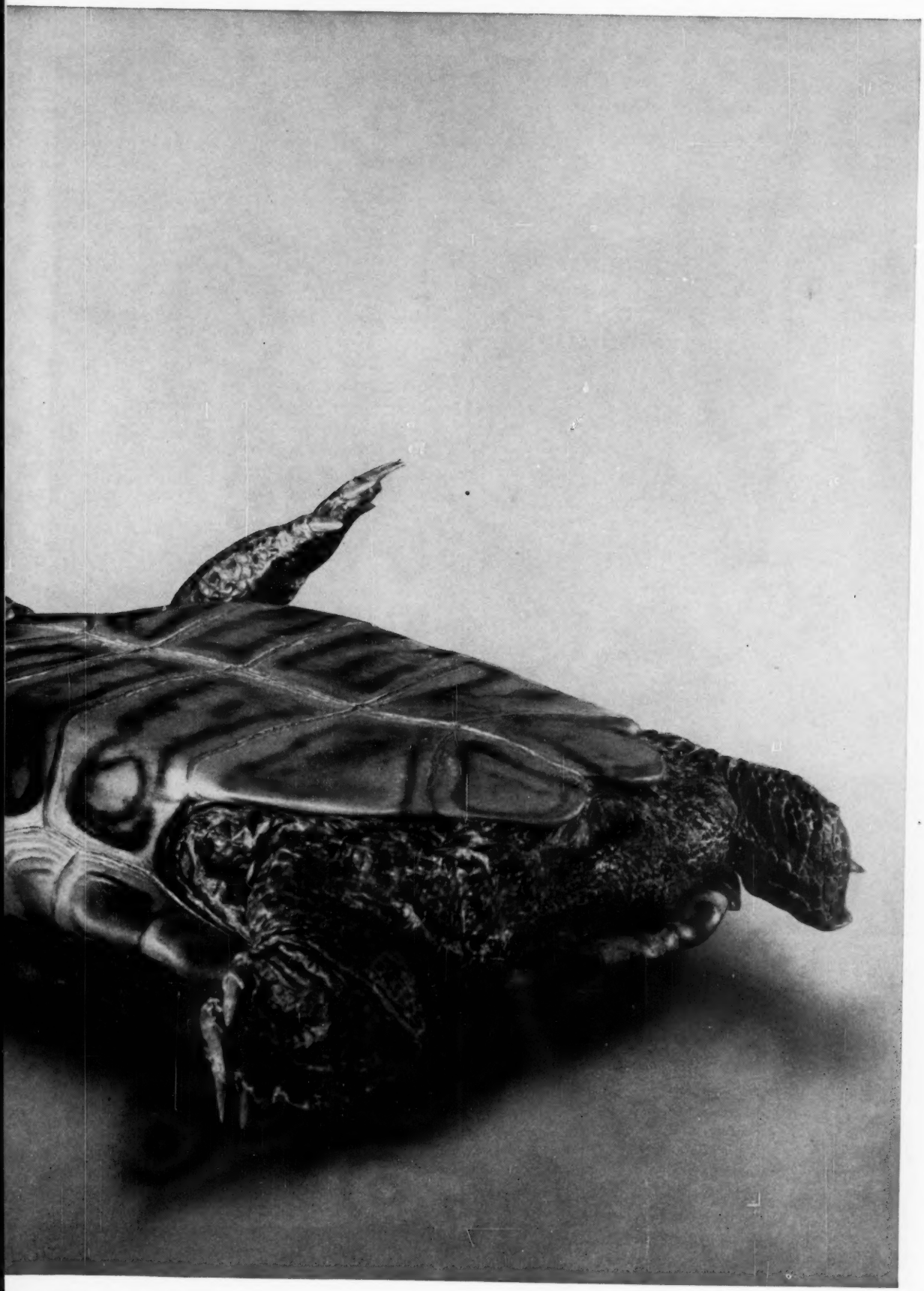
Some merchandise just stays put, getting older and older. Earning no profit at all . . . Smart businessmen know how to cut the turnover risks. They know that Du Pont fiber trademarks can help goods move fast. That's because these are the best-known, most-trusted modern fibers in the world, bar none. They're miles ahead in consumer preference. (Fact: 2 to 1, men in a recent survey preferred a jacket identified as Du Pont nylon over a jacket of the same brand identified as nylon.)...And a hard-hitting, far-reaching advertising program, including "THE DU PONT SHOW WITH JUNE ALLYSON", keeps building this preference...That's why it pays to feature Du Pont fibers in your ads, on your labels and in your selling plans.

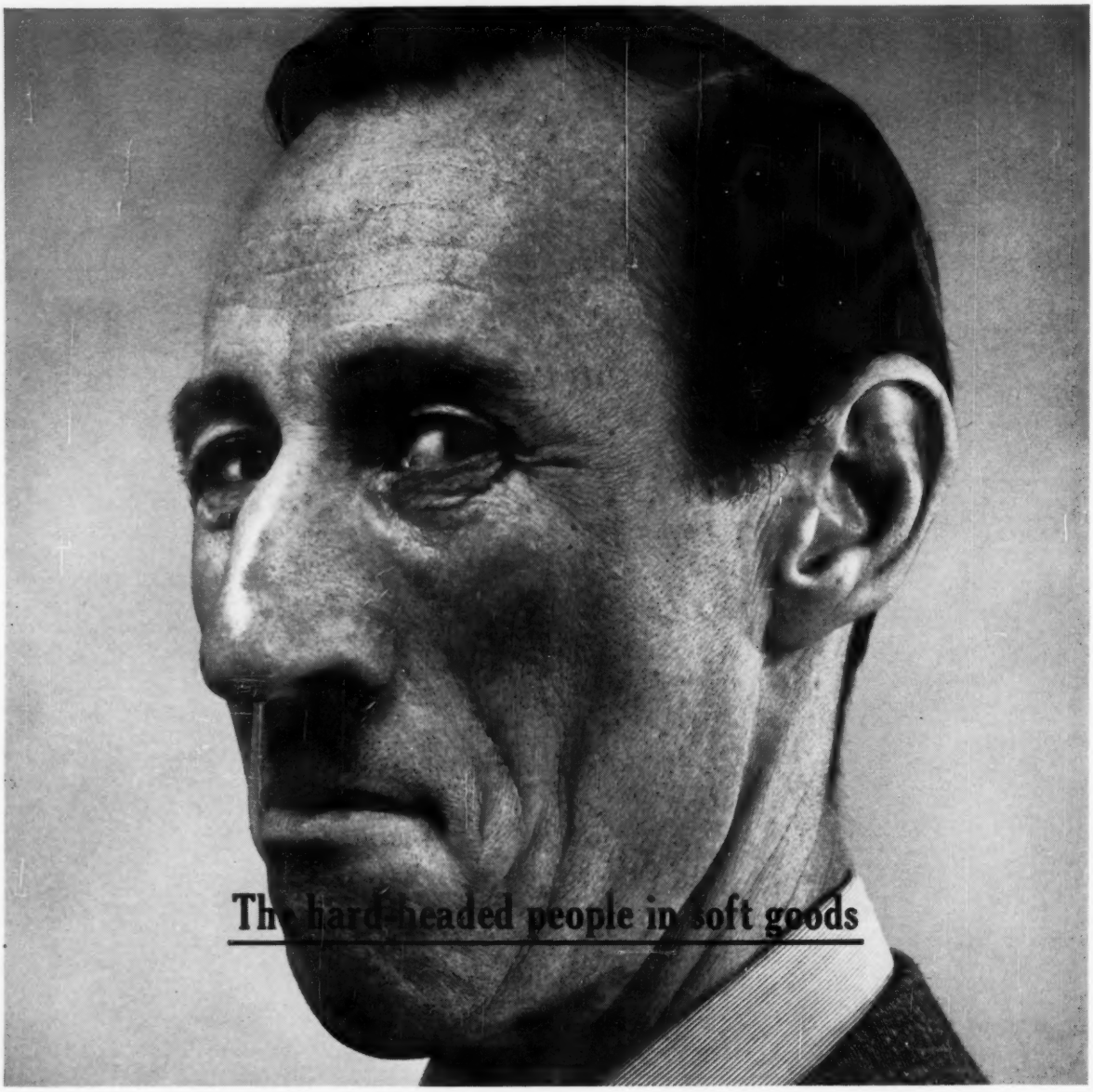
DU PONT
NYLON "ORLON"®* "DACRON"®
ACRYLIC FIBER POLYESTER FIBER
...GIVE YOU A SELLING EDGE!

DU PONT REG. U.S. PAT. OFF. BETTER THINGS FOR BETTER LIVING . . . *THROUGH CHEMISTRY*

*Du Pont's registered trademark for its acrylic fiber. **Du Pont's registered trademark for its polyester fiber.

Enjoy THE DU PONT SHOW WITH JUNE ALLYSON, on CBS-TV.





are featuring fabrics made with Courtaulds' new forms of rayon

It's true! Courtaulds' extraordinary rayon fibers are enriching knits and wovens all over the market. Good in themselves, they're also great mixers. They give a beautiful lift to polyesters and acrylics, for instance, and reduce fuzzing and clinging in wash-wear blends with all synthetics.

And what wonderful individual qualities! Cross-linked Corval and Topel produce superb quality of hand, have a flair for luxury weaves and a thirst for color that puts new glow and go into merchandise. Solution-dyed Coloray creates unmatched colorfastness and delicious, downy texture. All three fibers take to all finishes—make all kinds of fabrics—and make them *better*. Make sure you feature the better fabrics made with Coloray, Corval and Topel!

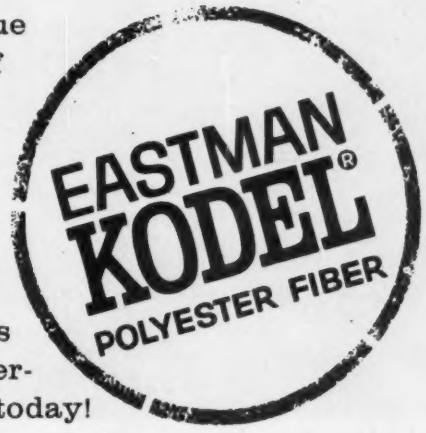
COLORAY®
SOLUTION-DYED RAYON
CORVAL®
CROSS-LINKED RAYON
TOPEL®
CROSS-LINKED RAYON

Courtaulds (Alabama) Inc., *first in man-made fibers, first in cross-linking, first in solution-dyeing*, 600 Fifth Avenue, New York 20...Greensboro, N. C. ...Le Moyne Plant, Mobile, Alabama.

.....new EASTMAN breakthrough

SOLUTION-DYED BLACK KODEL POLYESTER

Now you can get a polyester fiber in a true colorfast black! Kodel, the champion of stay-fresh fibers, is first in America with this important new fiber development. A breakthrough that means new styling possibilities for polyester blends... more dimension, more colors, more pattern effects. Complete color uniformity in your blacks, too. Eastman's new Kodel black is now being produced in 2.25, 3 and 4 denier-per-filament staple ... also tow. Look into it today!



Kodel is the trademark for Eastman polyester fiber

EASTMAN CHEMICAL PRODUCTS, INC., SUBSIDIARY OF EASTMAN KODAK COMPANY, 260 MADISON AVENUE, NEW YORK 16

but I·R·C Continuous Process Rayon Yarn has no end...of beautiful, versatile, profitable uses...Nobody else continuously spins a yarn as perfect as this.

Industrial Rayon Corp., 500 Fifth Avenue, New York 36, New York

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The CHAMELEON — symbol of adaptability to changing conditions

is the word for . . .
WHITIN CHANGEOVERS

. . . and they certainly are — adaptable to your needs and to your pocketbook! This is the simple success story of the Whitin line of spinning changeovers. Simple Conversion or a full scale Changeover — you have a wide choice of the *right* equipment — at the *right* price!

Whether your needs require an outlay of one, five, or fifteen or more dollars per spindle, you have the assurance that dollar for dollar you could not make a better investment toward improving both your product and your competitive position.

The drafting zone is the *profit* zone. The performance and efficiency of its elements are vital to profitable operation. Replace outdated and worn elements, such as cradles, bands, rolls, nose bars, etc. New and modern Whitin drafting systems offer more complete and accurate control of the fibers in the main drafting zone. The uniformity and the breaking strength of the yarn is improved. Lubrication is minimized or eliminated and maintenance and cleaning problems simplified.

Double apron systems with either long or short bottom aprons are available in combination with several streamlined weighting arrangements. Ball-bearing top rolls provide thousands of hours of trouble-free, worry-free production. Antifriction bottom rolls may be specified, as well as roll stands in several different angles of incline.

A staff of trained changeover specialists are at your service at our Charlotte Division, Charlotte, N. C. Upon request they will be glad to survey your equipment, examine your needs, and recommend exactly the changeover that is *right* for you.

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Don't miss "Changeovers in Action" in our Booth No. 819 Annex 4 at the S.T.E., Greenville, S. C.

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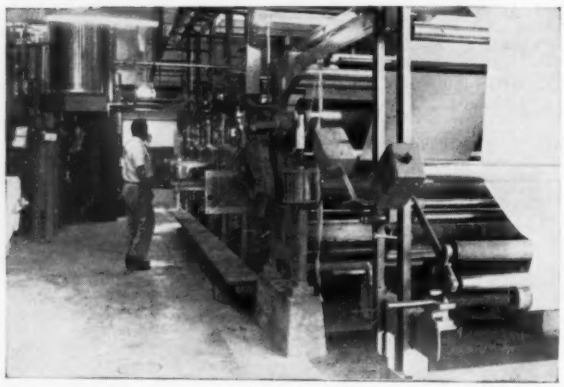

New Counterflow
Washer. . .

Another 1960 Installation typical of
Kenyon's continuous program
to provide the advanced
finishing techniques which
modern fabrics demand.

"KENYON OF KENYON, RHODE ISLAND"

America's Leading Finisher of
Fine Synthetics since 1936

Kenyon

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NEW FABRICS

NEW YARNS

Nonwoven Stabilizer

Pelomite, a new nonwoven stabilizer that is said to make a fabric with the touch of a hot iron, will be introduced with a promotion drive by its manufacturers, Pellon. A nonwoven construction with tiny fusing granules on one side, Pelomite has the quality of fusing with any outer fabric when the two are pressed together with a hot iron. First introduced in the wholesale apparel field 18 months ago, Pelomite is now being made available to home sewers. *For further information write the editors.*

Cumuloft Upholstery Fabrics

Chemstrand Corp. has introduced upholstery fabrics of its Cumuloft continuous filament textured nylon yarn. The fabrics, an exclusive collection by Sidney Blumenthal & Co., mark the second application of the textured yarn which was initially introduced earlier this year in floor coverings.

Cumuloft yarns are used in three individual denier counts as required by the type desired in the finished fabric: 520, 1040 and 2080 deniers. Chemstrand will launch the new fabrics with a strong trade promotional program as well as with newspaper ad campaigns in key market areas, and a series of full-color ads in leading home interest magazines. *For further information write the editors.*

Bondyne Sportswear

A broad range of 25 Bondyne fabrics bonded with Dynel modacrylic fiber has been styled for spring 1961 men's slacks and sportswear, and will be introduced by Greenwood-California Fabric Corp. The new fabrics are woven by Iselin Jefferson, Reeves Brothers and Greenwood Mills under special arrangement with Bondyne Associates, Inc., national licensing, merchandising organization for Bondyne construction fabrics. Dyeing and finishing operations for Greenwood-California are handled by United Piece Dye Works and Old Fort Finishing Co.

Greenwood-California reports that the chief feature of the Bondyne construction for men's wear is the high degree of press retention imparted to the fabrics. This is due to the blend of Dynel modacrylic fiber, made by Union Carbide Corp., which permits the blended fabric to be set in finishing, *For further information write the editors.*

New Creslan Blanket

At its annual May lay-away sale, Montgomery Ward introduced a selection of blankets made with Creslan acrylic fiber. The blankets, before being put on sale, were made to Ward's own specifications and then tested for wear, laundering and warmth, both by Ward and American Cyanamid, producer of Creslan. *For further information write the editors.*

Orlon Knitting Yarns

Hand-knitting yarns in Du Pont's Orlon Sayelle acrylic fiber will be introduced by a number of the country's knitting mills for sale next fall. Among the first yarn jobbers to include the new Orlon in their lines are Emile Bernat, Bernhard Ullman and Spinnerin. Orlon Sayelle is reported to have a permanent, reversible crimp, giving it increased elasticity; it relaxes and uncurls when wet but regains its crimp automatically as it dries. For the home knitter, Du Pont states, this property will keep garments from becoming baggy after long wear, and cuffs or waistbands from stretching out of shape. *For further information writes the editors.*

Help on Invoices Sought

In connection with clerical work arising in retail stores as a result of the requirements of the Textile Fiber Products Identification Act, the National Retail Merchants Association has written to the Textile Distributors Institute asking for the cooperation of its members in using invoices that may be legibly copied on duplicating machines such as Thermofax. Believing that the appeal of the NRMA will be of interest to textile merchants generally, the Textile Distributors Institute has made public below the text of the letter.

"In many stores the receiving and marking system necessitates reproducing the vendor's invoice on machines such as Thermofax. Because certain inks are used in either printing the manufacturer's invoice or typing or writing the invoice information, some invoices cannot be clearly reproduced.

May we ask your help in the effort to solve this problem? It will require the cooperation of your members along the following lines:

1. Whenever possible, all information on invoices including manufacturer's name and the invoice number should be printed in black ink. (Almost all black inks will reproduce clearly on the various copying machines used by stores.)

2. If manufacturers wish to use colored ink on invoices, the printer should be requested to use special inks now on the market which will reproduce satisfactorily on most copying machines. (In most cases, these are graphite-bearing inks.)

3. In typing information on invoices black ribbon only should be used.

4. Hand-written information on invoices should be entered in black ball point pen, pencil or colored ball point pens containing inks specially prepared for reproduction purposes. In most cases, standard fountain pen and ball point pen inks will NOT reproduce.

Our committee would appreciate your passing these suggestions on to your members. The changes will be very helpful to us and, we're informed, can be accomplished without additional manufacturing expense."

New Decision in Design Copying

Recent developments in litigation involving the so-called "pirating" of textile designs was reviewed in a recent bulletin of the Textile Distributors Institute. Because, the subject is one of wide interest among mills and converters, the text of the bulletin is presented below.

In our Bulletin #2217 we advised you of an important decision in the United States Circuit Court of Appeals. In that decision, the United States Court of Appeals held that where the alleged infringer claims that the copyright of the plaintiff is invalid because the copyright notice was on the selvage of the fabric and was obscured when the fabric was cut and sewed into a dress, then the copier who claims this defense has the burden of proving that the copyright notice could have been embodied in the design in a way that it could have been seen.

In the case decided March 30 by the United States Court of Appeals for the Second Circuit (Peter Pan Fabrics, Inc. and Henry Glass Co. vs. Dixon Textile Corp.), the Court of Appeals followed its previous decision discussed above. It re-stated its position that a deliberate copier had the burden of proving that the plaintiff's notice of copyright could have been embodied in the design (as distinguished from the selvage of the fabric) without impairing the market value of the product.

In this case, the Court of Appeals referred the matter back to the Lower Court to determine whether the copyright notice could have been placed elsewhere on the fabric and also to decide whether the defendant had, in fact, deliberately copied the plaintiff's design.

Another recent decision involving both design copying and contracts was handed down by the New York Supreme Court on April 4 in the case of Loomskill vs. Merrie-Kay, Inc. In that case, a representative of the defendant examined a certain piece goods of plaintiff and signed a purchase order which contained a clause that the goods would not be copied. Thereafter the goods were delivered by the plaintiff to the defendant and the defendant signed a receipt for the goods, which receipt referred to invoices which were forthcoming from the plaintiff a few days after delivery of the goods. The invoice contained an arbitration clause.

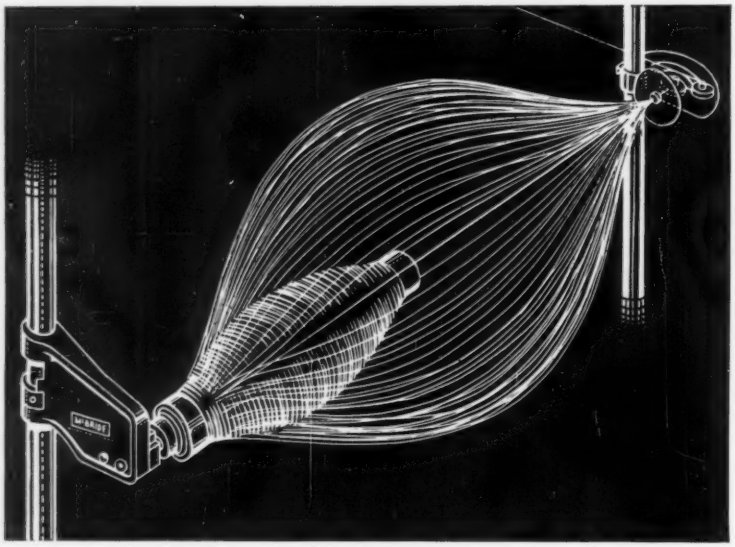
The plaintiff started a proceeding to enjoin the defendant from copying the fabric patterns. The defendant claimed that the legal action should be stayed or stopped pending arbitration. The Court ruled in favor of the defendant, that is, that the court proceedings for an injunction should be held in abeyance pending arbitration.

In its decision, the Court said that since it was the plaintiff who sent out the invoice containing the arbitration clause, then the plaintiff has consented to the arbitration and unless the plaintiff can prove that the buyer rejected the terms of the contract calling for arbitration, then the arbitration provision is binding on the plaintiff, that is, the seller. Thus, in effect, the Court ruled that the plaintiff could not proceed with a legal action in court to enjoin copying but would have to first resort to arbitration.

New TDI Member

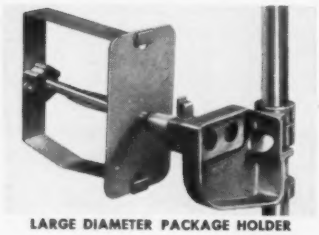
Membership in the Textile Distributors Institute has been extended to Michel Editions, Ltd., Jacques Maisch, president. The firm, located at 1407 Broadway, New York City, is a distributor of men's, boy's, women's and girls' woven fabrics as well as French and Italian imports.

BE ON TARGET WITH McBRIDE

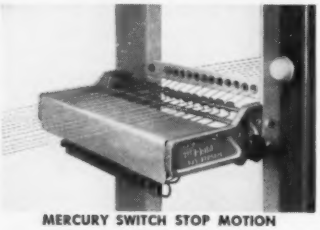


HEAVY DUTY CREEL ARMS

UNIVERSAL CONE HOLDER



LARGE DIAMETER PACKAGE HOLDER



MERCURY SWITCH STOP MOTION

Are your creel arms overloaded? Have you a problem reaching the target (entrance eye) on your tensions? If so you are losing warping efficiency. McBride's heavy duty package arm is designed specifically to correct this situation!

No Sag — even the largest packages stay straight on target for accurate over end draw off.

Fast Change — arm swings back out of way for package change, no interference with ballooning yarn.

McBride swing arm assemblies are made to fit all packages.

Instant changeover with McBride Quik change cone and large diameter package holders.

Complete new creels or fittings to modernize your existing creels.

Write today for our latest catalog.

LET McBRIDE STUDY YOUR WARPING SITUATION. YOU MIGHT BE SURPRISED WITH THE COSTS YOU CAN SAVE, THE IMPROVED QUALITY IN THE WARPS YOU PRODUCE.

CREELS *FOR EVERY PURPOSE*, CONE HOLDERS, STOP MOTIONS, TENSION CONTROLS, WARP BEAMS, FLANGES, CARPET INSPECTION TABLES, METAL AND WOOD ROLLS.

Complete engineering service is part of every McBride installation.

McBRIDE

COTTMAN AVE. & WISSINOMING ST.
PHILADELPHIA 35, PENNSYLVANIA
In Canada: Hugh Williams & Co., 27 Wellington St. E. Toronto 1, Ontario

For the DYER and FINISHER

Wash-Wear Softener

"Syl-soft 14," a new textile softener primarily designed for wash-and-wear fabrics but said to be useful wherever a lubricant is needed, has been developed by Dow Corning Corp. The finishing agent is a stable water dilutable emulsion of reactive silicone fluids. Only a small amount is needed to improve hand, tear strength and sewability of most fabrics, Dow reports. *For further information write the editors.*

New Sequestrants

Refined Products Co. has introduced two sequestrants for scouring and bleaching cotton fabrics. The first, Perma Kleer 95, is recommended for use in alkaline scouring operations to remove calcium, magnesium, iron, manganese and copper ion from the water as well as the fabric. The second, Perma Kleer 312, is designed for use directly in the bleach solution where it will remove metal ions from solution and inactivate any copper, iron or manganese carried over by the cloth. *For further information write the editors.*

New British Dye Process

A new process invented by Standfast Dyers & Printers, Ltd., Lancaster, England, is said to assure maintenance of uniformity of shade throughout short or long runs in vat dyeing of cloth with drastic reductions of seconds and elimination of shade selection. Standfast director Alfred Ogden, reported the latest development in his company's patent on continuous molten metal vat dyeing processes at the spring meeting of the Southeastern Section, American Association of Textile Chemists and Colorists. He said the system is particularly useful where the trade requires the dyeing of many short runs of cloth to varying shades. The bath of molten metal alloy, he explained, is used as a heat transfer and pressure medium in the dyeing process.

Pigment Printing Colors

Two new colors for textile pigment printing have been introduced by Hilton-Davis Chemical Co. The new colors, a brown and an orange, are offered in the company's Hiltone and Seabond printing systems. Hiltone is a water-in-oil system, and Seabond an oil-in-water system. Both colors can be applied to cotton and synthetic fibers. *For further information write the editors.*

New Naphthoquinone

New process and product research approaches for fungicides, algaecides, dyes, pharmaceuticals and other synthesized organic chemicals are possible with the pure (98.5% minimum) 1,4-naphthoquinone now available from the intermediates department of American Cyanamid Co. With the start of commercial production in the second quarter of this year, Cyanamid states that it has become the first producer of a pure naphthoquinone product in this country. *For further information write the editors.*

New Antistatic Agent

Crestex Antistat B, a new antistatic agent for use on nylon, acetate, polyesters, acrylics and other hydrophobic fibers, has been developed by Crest Chemical Corp. The new product is said to be highly effective in eliminating static build-up, with treated fabrics having a better appearance and hand plus resistant to lint and dust soiling. Elimination of the electric charge will avoid clinging and riding-up which often takes place with untreated garments.

The agent is an amber colored viscous liquid readily soluble in cold water, stable to storage and neutral in pH. It can be used to treat dyed fabrics with no change of shade or white fabrics with no yellowing and it is compatible with nearly all types of finishes. *For further information write the editors.*

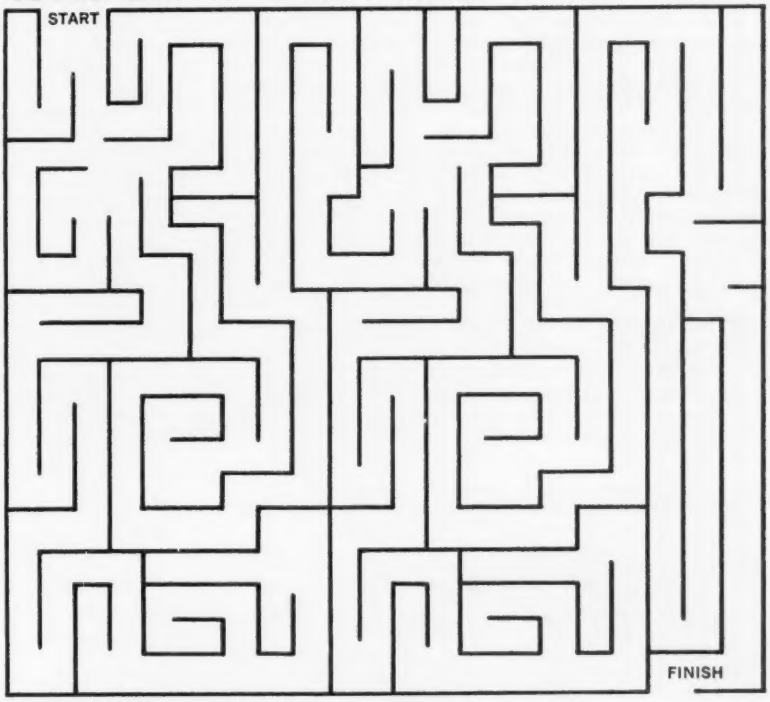
New Finishing Chemical

A reactive tri-functional compound tradenamed Mapo is being offered commercially for the first time by Interchemical Corp. It is a phosphine oxide supplied as a liquid with a minimum assay of 92%, and requires no solvents or stabilizers. Because Mapo reacts with active hydrogen, it is used as a cross-linker; this application to carboxyl-containing polymers makes it potentially useful in textile finishing systems, including durable function finishes, nonwoven fabric binders and related applications. *For further information write the editors.*

Ultraviolet Absorbers

Two new ultraviolet absorbers, Uvinul N-35 and Uvinul N-38, have been announced by General Aniline & Film Corp. They are the first in a new family of UV absorbers which are chemically identified as substituted acrylonitriles. They are suitable for protecting nitro-cellulose lacquers and they may be of value in other systems as butadiene-styrene latex, melamine-formaldehyde, urea-formaldehyde, epoxy-amine and nylon formulations. *For further information write the editors.*

WHY DO IT THE HARD WAY?



CHOOSE THE RIGHT FINISH

THE FIRST TIME WITH

THE BEST HARD CHROMIUM PLATING

Walhard

Avoid the "maze" of plating claims! Select **WALHARD** and discover, as our customers have, that 26 years of specializing in *Hard Chromium Plating,* producing **Satin** and **Polished** finishes, will "guarantee" you satisfaction every time.

In addition to *Fast Efficient Service,* our customers can expect *The Best in Hard Chromium Plating.* **WALHARD** held to exacting tolerances and checked by precision instruments, can be the correct answer to your plating requirements.

Be sure you get *Quality Hard Chromium Plating!* Order **WALHARD,** it costs no more yet lasts longer.

WALHARD THE LEADING NAME IN TEXTILE HARD CHROMIUM PLATING

WALTON and LONSBURY

79 NORTH AVENUE • ATTLEBORO, MASSACHUSETTS

Polyethylene-Burlap Tubing

A method of laminating polyethylene to burlap tubing has been developed by Burlap Tubing Manufacturers, Inc., Philadelphia, Pa. Among the advantages of the new product as reported by Samuel Mackler, president, are the following: decided improvement in appearance; the need for a bonding agent is eliminated since only heat is required in the laminating process. Also eliminated is the possibility that the merchandise shipped in the laminated burlap tubing will be stained when handled roughly as has happened as a result of the tar used in the conventional bonding of paper to burlap.

The new method also permits the use of polyethylene of various thicknesses so that the burlap-polyethylene tubing can be tailored to a customer's needs.

The company reports that it has already laminated polyethylene in thicknesses ranging from .001 mil to 4 mil. The new product has been tradenamed "Poly-Bel-Tex Bias Sewn Laminated Burlap Tubing." *For further information write the editors.*

Better Wash-Wear Cottons

"Little or no-care" cottons may be greatly improved or else produced more economically, according to a theory advanced by Dr. S. J. O'Brien of the American Cyanamid Co. He told the recent 137th national meeting of the American Chemical Society in Cleveland that chemicals used to enhance cotton's properties may not be doing their best.

W. J. van Loo, Jr., an American Cyanamid research chemist, was co-author of the paper which suggested that how wrinkle-resistant cotton becomes seems to depend upon the degree of cross-linking (or bridging between the long, chain-like cotton molecules) achieved by the chemicals. Either more efficient chemical cross-linking can improve the cotton's wrinkle-resistance or the present degree of wrinkle-resistance can be obtained with less chemical. Dr. O'Brien said that the theory, based on studies of how formaldehyde takes the stiffness out of cotton fibers and gives them snap-back resilience, also can be applied to other cellulosic materials such as rayon.

Robert E. Pomeranz
President, Roberts Company
Sanford, North Carolina
Mfrs. of Textile Machinery

"Sales of Roberts ARROW Spinning Frames for 1960 should be 50% over 1959, which jumped 60% over 1958. Growth needs increasing funds so that customers can be adequately served. In Textile Banking Company, we have found a policy that is simple and realistic. Its management has an unlimited desire to accommodate itself to our needs and those of our customers."

* * *

TBC credit and financial services are available in many fields of industry. They are most effective for manufacturers with annual sales of $500,000 and over. A TBC officer will give prompt attention to any inquiry.

TEXTILE BANKING COMPANY
55 Madison Ave., Dept.MT, New York 10, N.Y.

SUBSIDIARIES:
T. B. C. Associates, Inc., New York
Southwest Texbanc, Inc., St. Louis
Pacific Texbanc, Inc., Los Angeles

BTC

Warp Sizing Data

Arnold, Hoffman & Co.'s new Bulletin No. 2004 lists and discusses Ahco products for warp sizing. Products described include the Ahcosize liquid emulsions and soft pastes, the Syntharol series of high melting point warp lubricant products recommended for cotton slashing, plus Syntharol ND, an anionic liquid emulsion specifically designed to provide combined lubrication and film continuity in sizing nylon, Dacron, and other manmade filament yarns of moderate and high twists. *For copies write the editors.*

New Hosiery Dye Net

Manufacturers and contract dyers in the hosiery, leotard and sweater fields are now being supplied with a newly introduced net bag of 100% Pu Pont Dacron polyester fiber by Fablok Mills, Inc. The new product is said to outlast cotton nets by many months. Fablok's "Versadye" nets are made for as few as three dozen children's socks or large enough to contain up to 25 pounds of circular knitted sweater fabric. The Dacron net is resistant to even the strongest bleaches and is impervious to almost all of acid-base colors required in dyeing Orlon, Ban-lon or other new synthetic yarns. *For further information write the editors.*

New Fancourt Products

W. F. Fancourt is now distributing data booklets on two of its new products. The first, Softener A, is a new softening agent adaptable for use on any type of fiber or fabric. It is suitable for treating bleached, dyed or printed textiles.

The second product is Resin BDC, reported to impart a fuller body to nylon hosiery. It may be used with Fancourt's other quality nylon finishes and lubricants. *For copies of the data bulletins write the editors.*

TEXTILE — NEWS BRIEFS

Multi-Lobal Nylon Yarn

Chemstrand Corp. has introduced a new multi-lobal nylon yarn tradenamed "Cadon." The multi-lobal shape of the fiber cross-section, which differs from the traditional round nylon filament, reflects light outwardly in such a way as to impart a desirable luster to the yarn and fabrics made from it. Chemstrand reports Cadon has application in woven and knit goods alike for home furnishings, apparel and industrial fabrics.

'Sanforized-Plus' Label

An extensive advertising campaign directing the consumer to look for the "Sanforized-Plus" trademark in wash-and-wear garments was launched by the Sanforized Division of Cluett, Peabody in August. The new label attached to wash-and-wear garments will attest that the fabric meets a high standard, including electronic evaluation of the fabric's smoothness after washing along with other tests for crease resistance, shrinkage, tensile and wear strength.

Endorse L22 Standard

The board of directors of the National Retail Merchants Association has formally endorsed American Standard L22. The new standard, which went into effect this month, makes available for the first time, and in one format, performance requirements of textile fabrics for 75 end-uses covering wearing apparel, accessories and home furnishings. It is an outgrowth of the original L22 which covered only rayon and acetate. The new standard covers all fabrics, regardless of textile fiber composition.

Zantrel Plant to Open

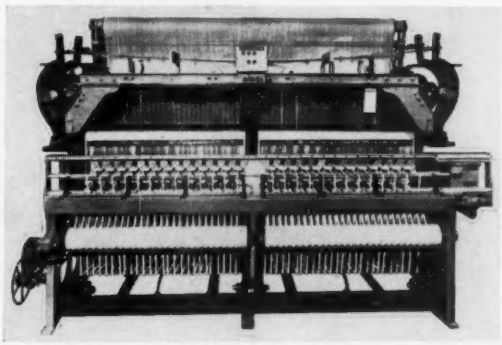
The first American plant for production of Zantrel polynosic fiber will open in September, according to C. Chester Bassett, Jr., vice president of Bigelow-Sanford, Inc., for Hartford Fibres Co. Bassett reported that engineering and construction plans at Rocky Hill, Conn., are progressing satisfactorily.

At present Zantrel is being imported from the Gauchy, France plant of Cia. Industrielle de Textiles Artificiels & Synthetiques. Initial yardage of apparel fabrics containing this new fiber is already reaching American consumers, according to Hartford.

See These FLETCHER 1960 MODELS In Production

Booth 807 Southern Textile Exposition

The New Fletcher MULTI-FAB High Speed Automatic Loom

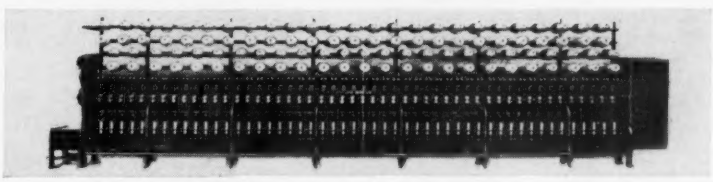


9 foot loom

built for maximum production of quality narrow fabrics

300 picks a minute
For light and medium fabrics,
- **ribbons**
- **tapes**
- **elastic**
- **glass**

Fletcher MASTER DUPLEX DOUBLER-TWISTER

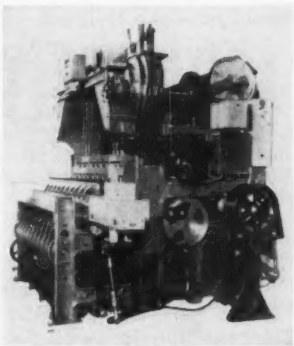


New, big sturdy precision-built machine with ring size 4¾"—5" has speeds up to 9,000 RPM. Twists up to 8 ends. New special feed roll attachments for making novelty yarns of glass, nylon and other synthetic and natural fibers.
Three type packages; conventional 2-headed, tapered top and tapered at both ends.

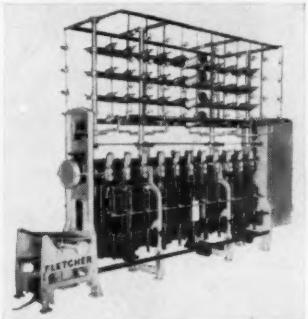
Provides the ultimate in flexibility on all yarns, synthetic or natural.
Gives you larger yarn packages for high-speed, tension-free delivery.

POWER-FAB High Speed Automatic Loom

5 foot loom · 54 inch traverse warp beams · Quills to 1¾" diameter heads · 250 picks per minute for type I to type IV government web, elastics, plastic webbing · 300 picks per minute for light fabrics, ribbons, tapes and glass.



See The NEW 1960 5-Foot
HIGH-SPEED ALL-PURPOSE
ELASTIC WEB LOOM
Can be converted from elastic to non-elastic in a few hours. 250 picks per minute.



The BIG 5 POUND PACKAGE
FLETCHER JUMBO DUPLEX DOUBLER TWISTER

5 pounds of Continuous Twisted and Doubled High Quality Woolen-Worsted, Textured, Synthetic and Cotton Yarns.
Bottle Bobbin, Straight or Taper packages. 22-spindle and 72-spindle 6" ring, 9-inch and 10-inch traverse.

FLETCHER INDUSTRIES

Hasbrook Ave. & Beecher St., Cheltenham, Pa.

FLETCHER INDUSTRIES, Turner Div.
STATESVILLE, N. C.

FLETCHER SOUTHERN
SOUTHERN PINES, N. C.

Dow Expands Office

The textile fibers sales group of Dow Chemical Co. has moved to new quarters on the eighth floor of 350 Fifth Ave., New York. Arthur S. Gould is manager of the New York offices, in which many Dow products form an integral part of the decor. In support of the sales of Dow's three textile fiber products—Zefran acrylic fiber, Rovana saran micro-tape and Lurex metallic yarn—the sales force has been increased.

Burlington Shuts Plant

Burlington Industries will close and dispose of the machinery and equipment of its High Point Weaving Co., High Point, N. C., within the next few months. The decision to close the plant was made primarily because the largest single item manufactured was worsted material, which Burlington said could no longer be made and sold profitably. James L. Eskridge, Burlington production executive, blamed the steady increase of imported worsted material for this situation. Burlington closed two similar plants in Carrboro, N. C., in 1958.

AATCC Show Space Open

Exhibition space for the 1960 national convention of the American Association of Textile Chemists and Colorists at the Sheraton Hotel, Philadelphia, Pa., is still available. Information can be obtained from M. H. Klein, Sandoz, Inc., 2215 E. Tioga St., Philadelphia 34, Pa.

Israel to Make Nylon 6

Rogosin Industries at its nylon 6 plant at Ashdod, Israel, is preparing to start output shortly of nylon texture yarn at a rate of 1,000 tons annually. Fifteen denier monofilament and 30 to 100 deniers in multifilament will be produced. Germany has supplied most of the equipment, with Holland furnishing the raw material, caprolactam. Rogosin also plans to make a million kilos of nylon tire yarn annually.

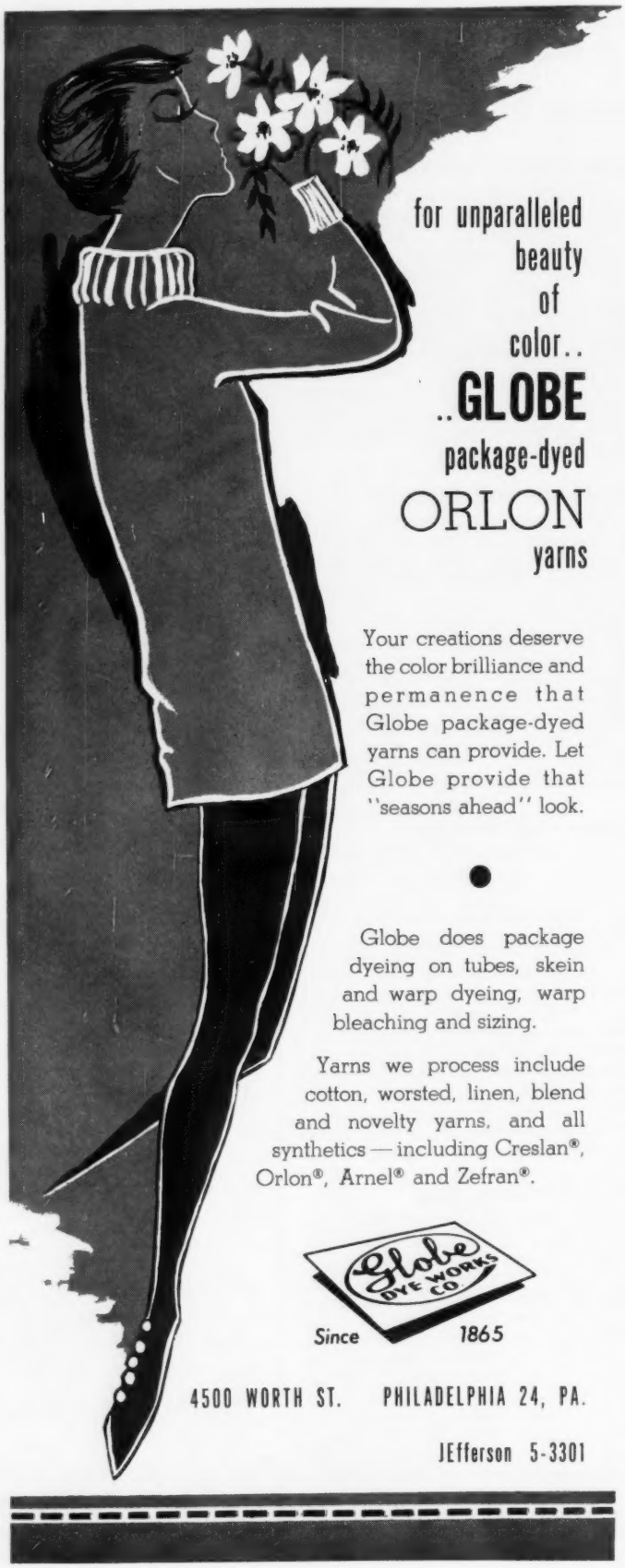
Du Pont Upholstery Nylon

Antron 24 nylon, a new textured continuous filament nylon yarn, has been introduced by Du Pont to meet demands of furniture manufacturers and weavers for more versatility in styling of frieze fabrics. The new upholstery yarn is made of the Antron multifilament tri-lobal nylon introduced several months ago.

Metlon Price Hike

Metlon Corp. has increased the price of all Metlon-B (butyrate base) metallic yarns. The increases range from 20 cents to 30 cents a pound, depending on yarn size.

For further News see Page 117


for unparalleled
beauty
of
color..
..GLOBE
package-dyed
ORLON
yarns
Your creations deserve the color brilliance and permanence that Globe package-dyed yarns can provide. Let Globe provide that "seasons ahead" look.
Globe does package dyeing on tubes, skein and warp dyeing, warp bleaching and sizing.
Yarns we process include cotton, worsted, linen, blend and novelty yarns, and all synthetics — including Creslan®, Orlon®, Arnel® and Zefran®.
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Since 1865
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Your preview and floor guide

SOUTHERN TEXTILE EXPOSITION

Greenville, S. C. - Oct. 3-7

EARLY NEXT MONTH interest throughout the textile industry will be centered on Greenville. In that brisk little South Carolina city, there will be staged on October 3rd through the 7th, the 21st biennial Southern Textile Exposition, which this year will be bigger than ever before. Staged in Textile Hall and its eight annexes, providing more than 100,000 square feet of floor space, the Exposition this year is expected to surpass in the number of exhibitors the 340 who participated in 1958. According to Miss Bertha M. Green, director of the exhibition, demand for space has led to the decision to provide yet another annex. The new annex, known as Number 9, is located in a leased building directly across the street from the main Textile Hall. The new space will be used primarily for displays of operating machinery.

A new system of admission is being started at this year's show. Name badges will be provided for all visitors and admission will be by badge only. Exhibitors will mail invitations to customers and Textile Hall will mail invitations to persons in the industry.

The invitations, filled out by the recipient with name, title and company, will serve both as registration card and badge insert. When presented at the registration booth by a visitor, a badge will be issued at no cost.

All persons connected with textile manufacturing are invited to attend the five-day show, the only difference this year being that admission will be by badge only.

For the 1960 exposition Textile Hall is undergoing a face lifting and sprucing up. Since October weather is unpredictable, the first floor of the building has been ventilated. The show will run each day from 9 a.m. to 6 p.m.

Exhibitors at the 21st exposition include virtually every major manufacturer of basic processing machinery and equipment in every part of the nation.

The expositions in recent years have literally transformed Textile Hall and its annexes into something of a giant pilot plant, since much of the machinery consists of working models in operation under simulated mill conditions.

Floorplan of 21st Southern Textile Exposition

Exhibitors & Exhibits

ABBOTT MACHINE CO., INC.
GREENVILLE, S. C.—WILTON, N. H.—(813-815)

EXHIBIT: Model II HR radial quiller; Model 66/67 large package automatic winder; and other interesting features.
IN ATTENDANCE: S. L. Abbott, W. L. Perry, L. S. Ligon, L. S. Ligon, Jr., S. A. Roane, E. W. Skinner, F. L. Hendricks, A. P. Apple.

ABINGTON TEXTILE MACHINERY WORKS
NORTH ABINGTON, MASS.—(829)

EXHIBIT: Latest vacuum stripping system for revolving flat top cards; hand knotters; automatic remote controlled bottom discharge receiver; cardpen.
IN ATTENDANCE: J. W. Burbine, W. W. Brame, M. R. Bradley, S. Smith, Jr., O. H. Ramo.

ACME CHAIN CORP.
HOLYOKE, MASS.—(903)
See M. R. Snyder Co.

ACME STEEL CO.
CHICAGO, ILL.—(356-357, 517)

EXHIBIT: The Fabricated Materials Div. in Booth 356 will show its AIM Brand rack, slotted angle, and other metal materials. The Steel Products Div. will introduce its new fully automatic compression strapping machine (Booth 517).
IN ATTENDANCE: M. G. Niergarth, J. J. Burns, T. H. Ronan, D. C. Wade of Fabricated; and G. R. Easley, D. C. Jorgensen, M. H. Brown, J. B. Farr, E. H. Jones, E. S. Lumpkin, J. N. McLean, J. B. Quarles, J. H. Scott.

ACOUSTICA ASSOCIATES, INC.
PLAINVIEW, N. Y.—(506)
See Electro Motion Corp.

ADAMS, CHET, CO.
GREENSBORO, N. C.—(241-242A)

ADAMS, INC.
GREENVILLE, S. C.—(447)

ADDRESSOGRAPH-MULTIGRAPH CORP.
CLEVELAND, OHIO—(362-263)

EXHIBIT: Various models of their multigraph and addressograph machines.
IN ATTENDANCE: D. F. Green, N. J. Merette.

AKRON SPOOL & MFG. CO.
HIGH POINT, N. C.—(247)

EXHIBIT: Display of "Spobbins", spools and bobbins.
IN ATTENDANCE: J. B. Hawley, M. L. Johnston.

ALDRICH MACHINE WORKS
GREENWOOD, S C.—(269)

ALLEN BEAM CO.
ALLEN WARPER CO.
NEW BEDFORD, MASS,—(101)

EXHIBIT: Improved Model G-3 high speed warper together with a warper beam with a 40" beam head, also adjustable beam head and creel segment; electronic tensions.
IN ATTENDANCE: Wm. L. Petersen, R. U. Thornton, W. Tinsley.

ALLEN-BRADLEY CO.
MILWAUKEE, WIS.—(413)

EXHIBIT: Electric motor control, including manual and magnetic starters and various pilot devices and accessories.
IN ATTENDANCE: G. L. Wittberger.

ALLENTOWN BOBBIN WORKS, INC.
ALLENTOWN, PA.—(316)

EXHIBIT: Bobbins and spools for the processing of fine denier yarns.
IN ATTENDANCE: H. W. Mack.

ALLIED CHEMICAL CORP.
NEW YORK, N. Y.—(262-263)

EXHIBIT: Applications of Golden Caprolan nylon.
IN ATTENDANCE: D. M. Holsenbech, S. A. Cooper, R. E. Ellsworth, G. H. Hotte, F. W. Noechel, W. H. Peissen.

ALLIS CO., THE LOUIS
MILWAUKEE, WIS.—(511)

EXHIBIT: Motors, drives and control equipment.
IN ATTENDANCE: M. E. Weitekamp, J. Brown, L. A. Hearn, Jr., J. R. Smith, B. R. Becker.

ALLIS-CHALMERS MFG. CO.
MILWAUKEE, WIS.—(142-143)

EXHIBIT: Motors, controls, starters, speed changers, drives, pump for conditioned air, and fork lift truck.
IN ATTENDANCE: E. D. Cuddeback, C. B. Rumble, Jr., A. W. Robinson, W. E. Watson, L. P. Gregory, C. B. White, Jr., R. McKee.

AMERICAN AIR FILTER CO., INC.
LOUISVILLE, KY.—(434)

AMERICAN LAVA CORP.
CHATTANOOGA, TENN.—(463)

EXHIBIT: Complete display of Alsimag ceramic thread guides for the textile industry.
IN ATTENDANCE: J. B. Shacklett, J. W. Crisp, W. H. Cooper, J. S. Hicks, Jr.

AMERICAN MOISTENING CO.
PROVIDENCE, R. I. AND CLEVELAND, N. C.—(840-844)

EXHIBIT: Their new "Uniqlone" lint collector and new ceiling and roving frame cleaners; also their ceiling-mounted loom cleaner; Aero-Miser, modulating interrupter, No. 6 atomizer, blow-thru valve, sling psychrometer, and other humidification and ventilation devices.
IN ATTENDANCE: M. McCall, M. H. Irons, L. D. Terry, J. E. Townsend, J. Walmsley, J. D. Johnson, W. A. Mullins, J. Waldrip.

AMERICAN MONORAIL CO.
CLEVELAND, OHIO—(111-112)

EXHIBIT: Automatic cleaning equipment and chainless and cable-way conveyor systems.
IN ATTENDANCE: C. L. Fell, L. R. McEachern, C. Sheets, V. W. Cook, H. J. Gleaton, J. I. Brown, E. H. Doerger, H. McKinney, C. P. Newell, J. Mikel, J. Whitted, E. S. Murray.

AMERICAN PAMCOR, INC.
ATLANTA, GA.—(125)

EXHIBIT: Animated display of electrical terminals, connectors, and multiple wire splices and application tooling.
IN ATTENDANCE: J. A. Drury, Jr., J. Gleason, J. Murphy, J. Taylor.

AMERICAN PULLEY CO.
PHILADELPHIA, PA.—(479)

EXHIBIT: V-belt drives, speed reducers, and card drives; also hand trucks and portable elevating trucks.
IN ATTENDANCE: J. C. Bannan, H. L. Tygesson, J. E. Williams, S. C. Evens.

AMERICAN RIETER CO.
WEST CALDWELL, N. J.—(820-821)

EXHIBIT: There high speed draw frame Pattern DO; their high speed slubber Pattern F1; automixer.
IN ATTENDANCE: J. F. Dulken, R. O. Halter, H. Klaeui, H. Suter, W. Plowden.

AMERICAN SAFETY TABLE CO.
READING, PA.—(234)
With Hollister-Moreland Co.

AMERICAN STOCK GEAR DIV.
HARVEY, ILL.—(429)
With Ira M. Valentine

AMERICAN VISCOSE CORP.
PHILADELPHIA, PA.—(221)

EXHIBIT: Their Industrial Packaging Dept. will display the new Avistrap industrial cord strapping; also hand strapping tools, and a newly designed semi-automatic strapping machine.
IN ATTENDANCE: R. K. Scharff, J. E. Talbot, A. Lynch, H. Schaffer.

AMERICA'S TEXTILE REPORTER
BOSTON, MASS.—(225-226)

ANHEUSER-BUSCH, INC.
ST. LOUIS, MO.—(513)

EXHIBIT: Corn starches, dextrines and gums.
IN ATTENDANCE: R. F. Amacher, A. H. Luetkemeyer, W. P. Hope, C. J. Liebman, Th. M. Hampton, Jr., J. S. Abell.

ARMSTRONG CORK CO.
LANCASTER, PA.—(816)

EXHIBIT: Drafting rolls, aprons and loom supplies; new laboratory spinning unit in operation.
IN ATTENDANCE: T. L. Hill, R. S. Olcott, J. V. Ashley, and other district office representatives.

ARMSTRONG MACHINE WORKS
THREE RIVERS, MICH.—(439-440)

EXHIBIT: Inverted bucket steam traps, steam type humidifiers, syphon scoops; also in operation glass model of steam trap.
IN ATTENDANCE: O. E. Ulrich, also salesmen from representative organizations.

ASHWORTH BROS., INC.
GREENVILLE, S. C.—(122-123)

ATKINSON, HASERICK & CO., INC.
PAWTUCKET, R. I.—(817)

ATLANTA BRUSH CO.
ATLANTA, GA.—(420-421)

EXHIBIT: Special purpose brushes for the textile industry.
IN ATTENDANCE: Wm. C. Perkins, R. C. Hutchins, G. B. Snow, A. W. Dillard, A. McNeill, J. Nelms.

BAHAN TEXTILE MACHINERY CO., INC.
GREENVILLE, S. C.—(140)

EXHIBIT: Loom parts.
IN ATTENDANCE: W. L. Wilson, C. L. Pickens, W. R. Rothrock, W. H. Maudling, C. L. Greene, L. O. Talley.

BAHNSON CO., THE
WINSTON-SALEM, N. C.—(830-831)

EXHIBIT: Their "Air-O-Mation" equipment, including Cross-Jet travelling cleaner, Vacu-Pak floor sweeper, Collecto-Vac end

American Rieter Co.,'s high speed drawing frame Pattern DO

collector, Open-Aire spinning frame creels, humiduct air conditioning system, and a new stationary ceiling cleaner.
IN ATTENDANCE: A. H. Bahnson, Jr., A. E. Thomas, R. B. Crosland, I. L. Brown, S. B. Blanton, U. G. Browning, W. F. Walters.

BAKER INDUSTRIAL TRUCKS
CLEVELAND, OHIO—(834)
See Baker Manufacturing Co.

BAKER MANUFACTURING CO.
GREENVILLE, S. C.—(834)
EXHIBIT: Material handling equipment, lift trucks, textile leather specialties, check straps, binder leather, leather belting, etc.
IN ATTENDANCE: C. Baker, Mrs. C. Baker, G. Blume, M. Dreitzler.

BAL, WILLIAM, CORP.
ELIZABETH, N. J.—(838)
See Jenkins Metal Shops

BAND-IT CO.
ATLANTA, GA.—(321)
EXHIBIT: Industrial pressure clamps, hose clamps and hose nipples, couplings.
IN ATTENDANCE: A. W. Andrews.

BARBER-COLMAN CO.
ROCKFORD, ILL.—(254-56, 259-61)
EXHIBIT: Model 66 gSH (22H-6B) warp drawing machine; Model 56" MC portable warp tying machine with 56" MF warp frame; and Model 15" LC portable warp tying machine.
IN ATTENDANCE: F. D. Taylor.

BASSICK CO., THE
BRIDGEPORT, CONN.—(411)
EXHIBIT: Complete line of casters and position locks, featuring a new textile caster.
IN ATTENDANCE: R. H. Bragdon, R. Huber, E. Ripley, Wm. Gresham, G. P. Biggs.

BATSON, LOUIS P. CO. AND
BATSON MFG. CO., INC.
GREENVILLE, S C.—(223)
EXHIBIT: Textile mill supplies and weave room accessories.
IN ATTENDANCE: L. P. Batson, Jr., J. P. Batson, Jr., H. E. Batson and others.

BEST, EDWARD H. & CO.
BOSTON, MASS.—(268)
EXHIBIT: Action model of rubber compressive shrinkage belt and machine parts of fabric and felt.
IN ATTENDANCE: B. C. Yates, Jr., W. C. Hames, L. F. Kelley.

BIRDIE COMPANY
GREENVILLE, S. C.—(903-A)
See Frontier Electronics, Inc.

BIRCH BROTHERS, INC.
SOMERVILLE, MASS.—(248)
EXHIBIT: Finishing machinery, cloth handling equipment and mill sewing machines.
IN ATTENDANCE: C. W. Birch, Jr., R. Briggs, J. C. Cosby.

BOOTH CO., BENJAMIN
PHILADELPHIA, PA.—(464)
EXHIBIT: Complete line of metallic card clothing made by Graf of Switzerland; new line of card room machinery and supplies by the same manufacturer, including the Orion measuring device, flexible card clothing and card flats; Improvements in their Micr-O-Grind process; Supr-O-Tape condensor tape for woolen cards.
IN ATTENDANCE: E. A. Snape, Jr., N. Bush, W. Gill, W. Hurley, R. Hurley, H. Harrison, C. Stover, E. Snape.

BOSTON GEAR WORKS
QUINCY, MASS.—(212)
With Greenville Textile Supply Co.

BOSTON WOVEN HOSE & RUBBER CO.
BOSTON, MASS.—(102-A)
EXHIBIT: Bull Dog rub apron, belting, and industrial and fire hose.
IN ATTENDANCE: A. E. Lyon, W. H. Sheehan, S. J. Cliffor, F. S. Coole, R. H. Sydnor III.

BOULIGNY CO., THE
CHARLOTTE, N. C.—(474)
EXHIBIT: Rebuilt spinning frame, one side equipped with Whitehead nebs, saddles and complete Bouligny, Tru-Draft drafting system, the other side with SKF PK 300 pendulum weighting arm drafting system. Also to be shown Whitehead's Permalite separator shields, Permalube nebs and saddles, and Bouligny traversing threadboards.
IN ATTENDANCE: L. O. Crawford, F. R. Beaver, R. C. Page, J. M. Francis, S. Walsh, J. P. Coleman.

BOWEN-HUNTER BOBBIN CO.
EAST CORINTH, VT.—(212)
With Greenville Textile Supply

BRAINARD STEEL DIV.
WARREN, OHIO—(477)

BROWNE & SHARPE MFG. CO.
PROVIDENCE, R. I.—(264)
See Livingston & Haven

BULLARD CLARK CO., THE
DANIELSON, CONN.—(422)

BURLAP TUBING MFRS. INC.
PHILADELPHIA, PA.—(325)
EXHIBIT: Bel-Tex Fit-Rite bias sewn burlap tubing, laminated burlap carpet warps, Burtex adhesive and Belmont wire ties and automatic twisters.
IN ATTENDANCE: S. Mackler, T. D. Cook, Jr., C. P. Shoffner, H. L. Poole.

BURLINGTON MILLS
GREENSBORO, N. C.—(432)
See Holt Associates

CABLE CARRIERS, INC.
GREENVILLE, S. C.—(364)

CAROLINA BELTING CO.
GREENVILLE, S. C.——(217)
EXHIBIT: Box plate and binder leathers, Rusco harness straps, check straps, Hay condenser tapes, and comb and gill box aprons.
IN ATTENDANCE: C. T. Allen, E. Davis, Wm. R. Fox, J. E. Hay, C. F. Miller, E. W. Sargent, D. N. VanDyke.

CAROLINA BRUSH CO., INC.
CHARLOTTE, N. C.—(309)

CAROLINA FIBERGLASS PRODUCTS CO.
WILSON, N. C.—(335-A)
EXHIBIT: Fiberglass conditioning, doff and truck boxes, batch containers, shuttle guards, etc.
IN ATTENDANCE: R. P. Watson, Jr., W. N. Conoley and representatives of Matthews Equipment Co.

CAROLINA RADIO SUPPLY CO., INC.
GREENVILLE, S. C.—(328)

CAROLINA SUPPLY CO.
GREENVILLE, S. C.—(230)
Reception booth only.
IN ATTENDANCE: C. Mardre, B. E. Elletson, F. Casey, J. O. Crawford, Jr., B. Verdin, J. Farrow, L. Garett, H. Stevenson.

CARTER, A. B., INC.
GASTONIA, N C.—(124)
EXHIBIT: Boyce weavers and fishermen's knotters, spinning and twister travelers, and phantom drafting system.
IN ATTENDANCE: J. K. Davis, D. E. Phillips, P. L. Piercy, W. T. Horton, B. R. Link, R. A. Haynes, J. R. Richie, P. R. Stroup, L. O. Talley, J. B. Carter, E. H. Gregg.

CEN-TENNIAL COTTON GIN CO.
COLUMBUS, GA.—(824-825)
EXHIBIT: Their opener-cleaner, separator-cleaner, and new Cen-Tri-Vac cleaner for cotton.
IN ATTENDANCE: S. K. Dimon, A. Harmon, J. E. Brown.

CENTER CHEMICAL CO.
ATLANTA, GA.—(304)
EXHIBIT: Floor sealers and maintenance products for the mill.
IN ATTENDANCE: B. Jones, N. Legend, S. Sims, L. Ruff.

CHANDLER MACHINE CO.
AYER, MASS.—(359)
EXHIBIT: New type hand and power pinking; sample swatching machines.
IN ATTENDANCE: R. C. Maxant.

CHAVIS TEXTILE SALES CO.
GASTONIA, N. C.—(115-A)
EXHIBIT: Winder supplies.
IN ATTENDANCE: J. B. Chavis.

CHESTERTON, A. W.
EVERETT, MASS.—(228)
See Schachner Leather & Belting Co.

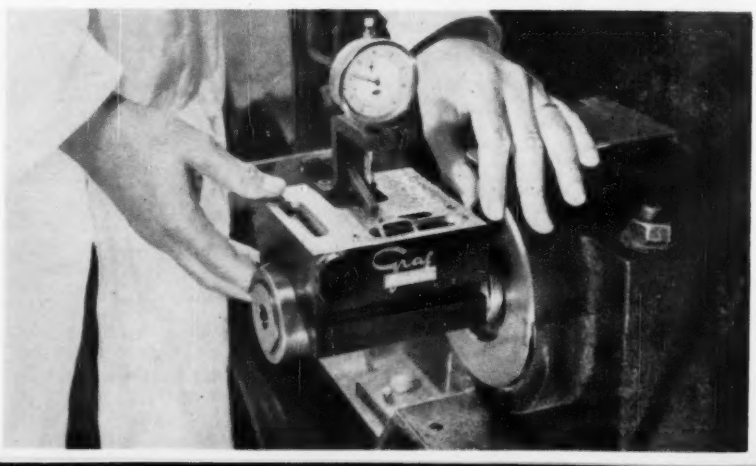
CHICAGO TRAMRAIL CORP.
CHICAGO, ILL.—(904)

CLARK-CUTLER-McDERMOTT CO.
FRANKLIN, MASS.—(449)
See Yeomans Textile Machinery Co.

CLARK DOOR CO., INC.
NEWARK, N. J.—(338)
EXHIBIT: Their air operated, double, horizontal sliding door.
IN ATTENDANCE: H. Clark, Jr., E. A. Wiegleb.

CLARK EQUIPMENT CO.
BATTLE CREEK, MICH.—(475)
EXHIBIT: Materials handling equipment especially suited for the textile industry.
IN ATTENDANCE: G. A. Markell, G. A. Christians, F. Lyne, and dealer representatives.

Benjamin Booth Co.'s Swiss-made Orion measuring device for checking textile rolls.



CLEVELAND TRAMRAIL
WICKLIFFE, OHIO—(115-B)
See Engineering Sales

CLINTON CORN PROCESSING CO.
GREENVILLE, S. C.—(205)
EXHIBIT: Reception booth only.
IN ATTENDANCE: A. C. Junge, R. C. Rau, C. F. Cline, B. L. Estes, and sales representatives.

COATS & CLARK INC.
NEWARK, N. J.—(512)
EXHIBIT: Nylon twister travelers and metal insert nylon travelers.
IN ATTENDANCE: R. H. Wilcox, T. B. Farmer, M. H. Cranford, H. A. Carter.

COCKER MACHINE & FOUNDRY CO.
GASTONIA, N. C.—(836-37)

COLSON CORP., THE
ELYRIA, OHIO—(480-81)
See Wrenn Brothers

COMETSA SPINDLE CO.
VERGARA, SPAIN—(908)
See Edward B. Rock

CONTINENTAL DIAMOND FIBRE CORP.
NEWARK, DEL.—(461-462)
EXHIBIT: Roving cans, handling containers, loom parts, laminated and molded gears.
IN ATTENDANCE: H. J. Coffey, H. Moyer, O. Thomas, A. D. Gray, G. W. VanSeth, C. B. Hynes.

CONTINENTAL TAPES
CAYCE, S. C.—(341-42)
See General Enterprises

CORN PRODUCTS SALES CO.
GREENVILLE, S. C.—(441)
EXHIBIT: Backdrop featuring some of their textile products.
IN ATTENDANCE: A .N. McFarlane, H. Plimpton, C. Spencer, A. A. Harden, J. T. Seawell, E. W. Beardsley, J. R. Hill. H. Haris, D. Jenkins, T. W. Blackwell, W. R. Joyner, P. A. Donaghy, Jr., J. A. Simson, J. M. Adcock, G. O. Greene, E. G. King, G. E. Wood, H. M. Green.

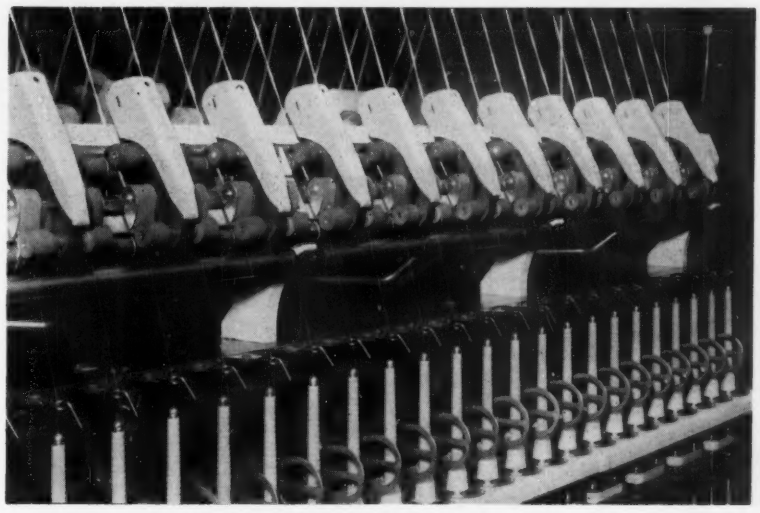
COTTON-McCAULEY & CO.
PAWTUCKET, R. I.—(828)
EXHIBIT: A new Saco-Lowell SJ-CG spinning frame in operation, equipped with Machinecraft's complete "Cleanguide" double apron drafting element, also with spring weighting and 60° angle roll stands; Climax and Cleandraft top rolls; Whitehead bobbin holders will be running on the spinning frame which is lubricated by the Bijur automatic system.
IN ATTENDANCE: F. H. Cotton, R. L. McCauley, R. K. Butler, J. B. Howarth, C. A. McAbee.

CRABTREE TEXTILE ACCESSORIES INC.
GREENVILLE, S. C.—(339)
EXHIBIT: Their Sintox sintered alumina hard ceramic thread guides; tension devices of all kinds, Gratex high density polyethylene loom products, and other accessories for the weave room and mill in general.
IN ATTENDANCE: G. A. Winterburn, J. B. Ashworth, P. Somers.

CREAMERY PACKAGE MFG. CO.
CHICAGO, ILL.—(127-127A)
EXHIBIT: Their stainless rotary slasher pump in operation.
IN ATTENDANCE: F. S. Brumley, Wm. Harrod, Wm. J. Moore, G. Willits, Ch. E. Schick.

CROMPTON & KNOWLES CORP.
WORCESTER, MASS.—(139)
EXHIBIT: Their C-7A automatic bobbin changing dobby loom with paper indication.
IN ATTENDANCE: J. F. Molloy, V. F. Sepavich, J. C. Irvin, R. A. Sharpe, L. Burgess, H. C. Wingard.

CRONLAND WARP ROLL CO., INC.
LINCOLNTON, N. C.—(106-A)
See G. F. League Mfg. Co



Dixon Corp.'s Cavalla Roth drafting changeover.

CROSS SALES & ENGINEERING CO.
GREENSBORO, N. C.—(218)

CROWN CO.
BREMEN, OHIO—(834)
See Baker Mfg. Co.

CURTIS & MARBLE MACHINE CO.
WORCESTER, MASS.—(235-37)
EXHIBIT: There SL selvage shear; M-125 cloth folder; and LCS-M-VS railway sewing machine for reinforced seams.
IN ATTENDANCE: W. F. Woodward, J. Federline, J. Stanley.

DAILY NEWS RECORD
NEW YORK, N. Y.—(210)

DARNELL CORP.
DOWNEY, CALIF.—(212)
With Greenville Textile Supply

DART UNION CO.
PROVIDENCE, R. I.—(459)
See Fairbanks Co.

DAVIS & FURBER MACHINE CO.
CHARLOTTE, N. C.—(476)
EXHIBIT: Card clothing machine, sample card, napper clothing, card clothing, leather and synthetic tapes and aprons.

DAVISON PUBLISHING CO.
RIDGEWOOD, N. J.—(LOUNGE 2ND FLOOR)

DAYCO TEXTILE PRODUCTS CO.
GREENVILLE, S. C.—(136)
EXHIBIT: Spinning frame in operation showing Dayco roll coverings and aprons, also Thorobred loom supplies and slasher rolls.
IN ATTENDANCE: J. O. Cole, E. L. Howell, Wm. L. Morgan, B. A. Glenn, T. W. Meighan, I. B. Veazey, H. H. Pearson, C. Dunn, G. H. Newbern, J. T. Edwardo, J. W. Brogden.

DINSMORE MFG. CO.
SALEM, MASS.—(234)
With Hollister-Moreland

DIXIE BEARINGS, INC.
GREENVILLE, S. C.—(416-417)
EXHIBIT: Bearings, pillow blocks, "O" rings, seals, bronze bars, bushings, etc.
IN ATTENDANCE: E. F. Brown, J. L. Lammers, Jr., J. L. Disney, J. M. Phelps, J. F. Rivers, H. L. Cox, D. Langford.

DIXIE BOBBIN CO.
BARRE, VT.—(432)
See Holt Associates

DIXON CORP.
BRISTOL, R. I.—(850)
EXHIBIT: Their new Cavalla Roth drafting, new tension weighting, new cots and aprons, their new 2-apron Shaw and 2-apron DR drafting systems, also other drafting systems.
IN ATTENDANCE: R. R. Miller, W. H. Tabor, V. Pierannunzi, M. C. Kenna, E. Hett, V. Collette, H. Hurt, A. Cavallaro.

DIXON CRUCIBLE CO., THE JOSEPH
JERSEY CITY, N. J.—(332-333)

DOCKERY MFG. CO., INC.
ROCKINGHAM, N. C.—(311-312)
EXHIBIT: Together with Texpak Plastics Inc., they will show picker sticks of high and low density; doff boxes and dyehouse trucks.
IN ATTENDANCE: J. C. Dockery, N. W. Dockery.

DODGE MANUFACTURING CORP.
MISHAWAKA, IND.—(403-404)
EXHIBIT: Broad line of mechanical power transmission equipment for textile machines.
IN ATTENDANCE: P. Keb, R. Barker, J. D. Stroobandt, F. J. Ebeling, R. Hanes.

DORRIS CO., GEORGE P.
ST. LOUIS, MO.—(429)
With Ira M. Valentine

DRAPER CORP.
HOPEDALE, MASS.—(132-134)
EXHIBIT: Two of its new shuttleless looms, one, a 46" model running at slow speeds to permit close examination, the other operating at 250 p.p.m.; also a large display of repair parts, accessories and mechanisms including a new link parallel assembly, a #14 shuttle check, a new center fork bracket, etc.
IN ATTENDANCE: J. Grant and others.

DURANT MFG. CO.
MILWAUKEE, WIS.—(903)
With M. R. Snyder Co.

EATON MFG. CO
CLEVELAND, OHIO—(506)
See Electro Motion Corp.

ECLIPSE MACHINE DIV.
ELMIRA, N. Y.—(212)
With Greenville Textile Supply

ECONOMY TEXTILES INC.
GASTONIA, N. C.—(905)
See Edward S. Rudnick

EDDA INTERNATIONAL CORP.
NEW YORK, N. Y.—(129)

EXHIBIT: Titan warp tying-in machines; Excelsior reed cleaning and polishing equipment; Henriksen VH-Super dye jig and sample dyeing machine; Maxbo shuttleless loom.
IN ATTENDANCE: B. Gudjonsson, H. A. Nagel, R. J. Farr, E. L. Pullen.

ELECTRO MECHANICAL ENGINEERING CO.
and
ELECTRO-MOTION CORP.
CHARLOTTE, N. C—(506)

EXHIBIT: Electrically controlled brakes and clutches, speed drives, speed variators and reducers, and centralized lubricating systems, all of the three divisions of Eaton Mfg. Co. which they represent. Also their own electrically controlled slubbing devices.
IN ATTENDANCE: J. G. Swinney and others.

ENGINEERED PLASTICS, INC.
GIBSONVILLE, N. C.—(846)

EXHIBIT: Bobbins, loom parts, specialty items, coatings, spindle adapters, materials.
IN ATTENDANCE: D. M. Davidson, Jr., J. E. Jones, E. B. Morrison.

ENGINEERING SALES CO.
CHARLOTTE, N. C.—(115-B)

EXHIBIT: Materials handling equipment including new continuous vertical conveyor.
IN ATTENDANCE: A. B. Little, G. Bickett, C. Philbeck, H. T. Preston, V. G. Brookshire.

EQUIPTO DIV. AURORA EQUIPMENT CO.
AURORA, ILL.—(305-306)

EXHIBIT: Steel shelving, slotted angle, work benches, drawer units and lockers.
IN ATTENDANCE: P. Streit, R. L. Logan.

ESSO STANDARD
CHARLOTTE, N. C.—(472)

EXACT WEIGHT SCALE CO.
COLUMBUS, OHIO—(208)

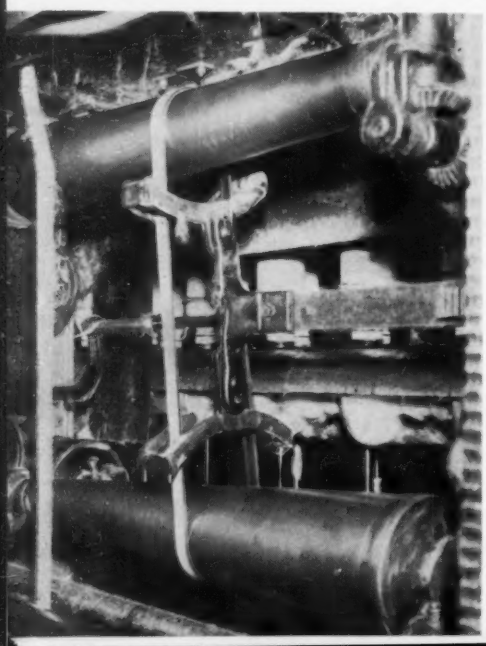
EXHIBIT: Scales and weighing equipment for production and quality control.
IN ATTENDANCE: J. M. Orta.

EXCEL, INC.
LINCOLNTON, N. C.—(233)

EXHIBIT: Materials handling equipment.
IN ATTENDANCE: N. W. Eurey, P. Eurey, E. E. Eurey, C. Eurey.

EXREMULTUS, INC.
LONG ISLAND CITY, N. Y.—(126)

EXHIBIT: Nylon polymer power transmission belts; a new synthetic friction surface for use on high speed false twisters.
IN ATTENDANCE: K. Tsunoda, G. L. Pellicer, C. G. Rivers.



Extremultus' roving frame cone drive.

FAIRBANKS CO., THE
NEW YORK, N. Y.—(459)

EXHIBIT: Casters, wheels, hand trucks, valves, etc.
IN ATTENDANCE: J. L. Ragland, J. T. Chandler, J. A. Bailey, J. R. Shattles, A. T. Giles, L. L. Bogle, P. M. Fallon.

FAIRBANKS, MORSE & CO.
ATLANTA, GA.—(102)

FAULTLESS CASTER CORP.
EVANSVILLE, IND.—(473)

EXHIBIT: Casters and wheels.
IN ATTENDANCE: H. Watters, T. J. Bromeling, G. T. McLeod, J. Couch, W. Burdette.

FEDERAL PACIFIC ELECTRIC CO.
CHAMBLEE, GA.—(108)

FELTERS CO., THE
BOSTON, MASS.—(349)

FENWAL INC.
ASHLAND, MASS.—(426)
See W. K. Hile Co.

FINNELL SYSTEM, INC.
ELKHART, IND.—(110)

EXHIBIT: Floor maintenance equipment and materials.
IN ATTENDANCE: J. E. Bates, H. Dickson, J. W. Linn, J. T. Core, V. Gustason.

FISHER MFG. CO.
HARTWELL, GA.—(314-15)

FLETCHER INDUSTRIES, TURNER DIV.
FLETCHER SOUTHERN, INC.
STATESVILLE AND SOUTHERN PINES, N. C.—(807)

EXHIBIT: A 22 spindle 6" ring Fletcher duplex twister; a 20 spindle 5" ring Fletcher duplex twister; Fletcher 5' Power-Fab loom; and 12 position Fletcher Speedex winder redraw.
IN ATTENDANCE: E. T. Taws, E. T. Taws, Jr., H. Roessel, E. Stowell.

FOSTER MACHINE CO.
WESTFIELD, MASS.—(827)
Together with Lindly Co., Inc., Mineola, N. Y.

EXHIBIT: The new Lindly Series 1000 ultra yarn inspector, also the Lindly electrotense tensions and their Dyna-Micro-Gage.
IN ATTENDANCE: E. C. Connor, P. H. Farmer, E. P. Dodge, E. H. Ely, H. Hornbuckle, G. W. Mallory, C. H. Amidon, all of Foster. H. Lindemann, V. Mateka, C. P. Elgin of Lindly.

FOXBORO CO., THE
FOXBORO, MASS.—(405)

EXHIBIT: Control panel for a dolly washer control system in which all operations of the washer are governed by a punched card programmer; new Model C-HCR Cycle-Log controller; speed and humidity transmitters; and other instruments.
IN ATTENDANCE: T. A. Jones, E. R. Tims, S. G. Alexander, W. B. Digby, R. M. Glass, W. H. Ridley.

FRONTIER ELECTRONICS, INC.
GREENVILLE, S. C.—(903-A)

EXHIBIT: Their loom production recording system; and M-M-M production control system. The Birdie Co. will show a new electric car for light materials handling.
IN ATTENDANCE: M. F. O'Brien, R. V. Hall,

FULLER CO.
CATASAUGUA, PA.—(264)
See Livingston & Haven

GARLAND MFG. CO.
SACO, ME.—(106)

EXHIBIT: Plastic and rawhide loom pickers, plastic lug straps and sweepsticks, and loom accessories.
IN ATTENDANCE: H. P. Garland 2nd, F. L. O'Neil, F. L. O'Neil, Jr., W. F. Hurley, H. Harrison, R. Hurley.

GASTON COUNTY DYEING MACHINE CO.
STANLEY, N. C.—(802)

EXHIBIT: Wet dyeing and finishing equipment.
IN ATTENDANCE: W. Newcomb, G. Hacker, G. H. Hacker, R. P. Craig, R. Angel.

GATES RUBBER CO., THE
DENVER, COLO.—(443)

EXHIBIT: Samples of new products for the textile industry.
IN ATTENDANCE: E. A. Dyson, H. R. Berry.

GAULT, P. C. CO.
GREENVILLE, S. C.—(354)

EXHIBIT: Telephone equipment and paging and locating systems for industrial plant.
IN ATTENDANCE: P. C. Gault, J. E. Marshall, H. C. Lord, Jr.

GENERAL BOX CO.
MERIDIAN, MISS.—(308)

GENERAL ELECTRIC CO., THE
SCHENECTADY, N. Y.—(116-117)

EXHIBIT: Their Kinatrol and Parmatic speed variators; also a mechanical adjustable speed drive.
IN ATTENDANCE: F. C. Alexander, C. D. Beck, J. D. Byrne, J. H. Fowler, M. D. Harris, E. E. Light, K. G. Morris, R. E. Parker, E. H Reilley, W L. Richbourg, E. F. Smith, T. R. White, J. C. Wyche.

GENERAL ENTERPRISES INC.
GREENVILLE, S. C.—(341-42)

EXHIBIT: Lubricants of the Ore-Lube Corp., New York, N. Y. and pressure sensitive tapes of Continental Tapes.
IN ATTENDANCE: J. J. Silverstein, G. Fant, Jr., C. G. Hinkle.

GEORGIA-CAROLINA OIL CO
MACON, GA.—(113)

EXHIBIT: Textile lubricants.
IN ATTENDANCE: R. W. Jones, R. W. Gober, H. E. Coggin, B. N. Coggin, G. W. Dobbins.

GILMAN PAINT & VARNISH CO.
CHATTANOOGA, TENN.—(446)

EXHIBIT: Paints, varnishes, lacquers and floor sealers.
IN ATTENDANCE: R. B. Olney, W. P. Dobson, J. M. Isom, C. H. Dodson, B. W. Sadler, L. C. Teeters.

GLOBE CO.
CHICAGO, ILL.—(115-B)
See Engineering Sales Co.

GLOBE GEAR CO.
PHILADELPHIA, PA.—(903)
With M. R. Snyder Co.

GLOVER WOOD TURNING CO.
WEST MILLBURY, MASS.—(432)
See Holt Associates

GOLDEN'S FOUNDRY & MACHINE CO.
COLUMBUS, GA.—(219)

EXHIBIT: Power transmission equipment, ball bearings, and gray iron castings.
IN ATTENDANCE: J. L. Grantham, J. Asselin, J. Kibby, R. K. Ballard.

GOODYEAR TIRE & RUBBER CO.
AKRON, OHIO—(834)
See Baker Mfg. Co.

GRATON & KNIGHT CO.
WORCESTER, MASS.—(507)

EXHIBIT: Their Orange line of textile leathers; also cements and belt dressing.
IN ATTENDANCE: J. G. Hendrikson, E. G. Sinclair, W. M. Wills.

GREAT AMERICAN INDUSTRIES
BEDFORD, VA.—(106-A)
See G. J. League Mfg. Co.

GREENVILLE TEXTILE SUPPLY CO.
GREENVILLE, S. C.—(212)

GRIFFIN, IRA L. SONS, INC.
CHARLOTTE, N. C.—(501)

EXHIBIT: Their starch cooker for the preparation of warp size and a high speed slasher featuring their size applicator; also various types of starch products.
IN ATTENDANCE: I. L. Griffin, Jr., I. L. Griffin, Wm. A. Griffin, G. E. Orr, E. D Schrader.

GULF OIL CORP.
PITTSBURGH, PA.—(211)

HATCHER SALES CO., INC.
ATLANTA, GA.—(467-68)

See Stanley Works

HAYES INDUSTRIES, INC.
JACKSON, MICH.—(433)

EXHIBIT: Their 30 and 21 inch nylon tricot beams, 30 inch nylon and 38 inch cotton section beams.
IN ATTENDANCE: R. D. Richards, W. D. Sharp, J. E. Prinz.

HEANY INDUSTRIAL CERAMIC CORP.
NEW HAVEN, CONN.—(514)

EXHIBIT: Heanium thread guides and tension devices.
IN ATTENDANCE: A. O. Pieper, R. L. Carroll.

HERR MANUFACTURING CO., INC.
BUFFALO, N. Y.—(67)

EXHIBIT: Complete line of their latest "M" conical rings and holders, featuring seam lubrication; flyers for all types of yarns for uptwisting.
IN ATTENDANCE: H. B. Atwood, Wm. W. Woodard, R. M. Leach, J. McLean, Wm. K. Anderson, Jr.

HILE, W. K. CO., INC.
CHARLOTTE, N. C.—(426)

EXHIBIT: Electric temperature controls of Fenwal, Inc.; electrical heating elements of Hotwatt, Inc.; and electric and pneumatic level controls of Instruments, Inc.
IN ATTENDANCE: W. K. Hile, C. P. Maloney, G. M. Lupo.

HILL MANUFACTURING CO.
ATLANTA, GA.—(358)

HILLIARD CORP., THE
ELMIRA, N. Y.—(903)

With M. R. Snyder Co.

HOLLISTER-MORELAND CO., INC.
SPARTANBURG, S. C.—(234)

HOLT ASSOCIATES, INC.
GREENSBORO, N. C.—(432)

EXHIBIT: Shuttle fur and sheepskin accessories of Snowiss Fur Co.; dobby cords, lug straps, pattern chain bars, sheaves of Rice Dobby Chain Co.; picker sticks, sweepsticks, binders and skewers of Norris Bros.; loom bobbins and warp spinning bobbins of Glover Wood Turning Co.; plastic pickers and sweepsticks of Inter-Con-Tex Import Co.; roving bobbins of Dixie Bobbin Co.; and nylon spinning and twister tape of Burlington Ribbon Mills.
IN ATTENDANCE: J. G. Skinner, D. R. Sellars, J. P. Norman, W. H. Huff, C. H. Crumpton, W. W. West, C. M. Dunn, all of Holt. In addition, representatives of above firms.

HOTWATT, INC.
DANVERS, MASS.—(426)

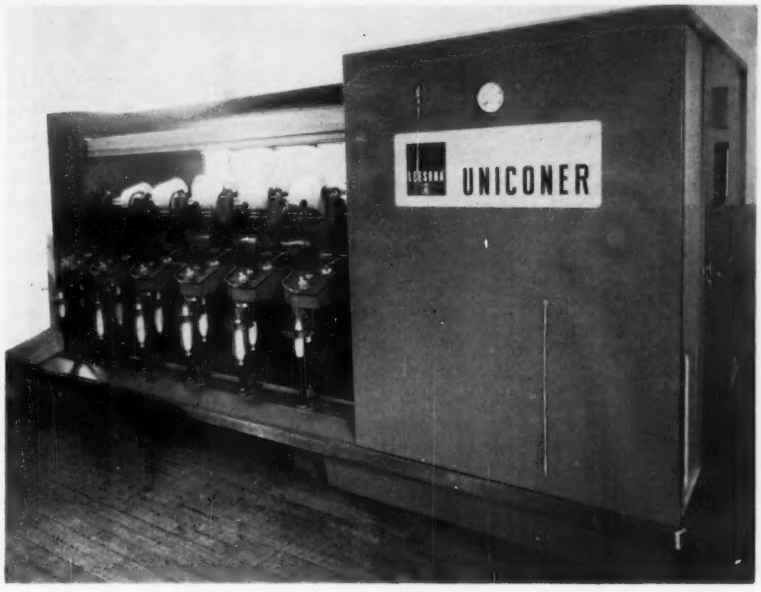
See W. K. Hile Co.

HOWARD BROTHERS MFG. CO.
WORCESTER, MASS.—(252-53)

HOWE SCALE CO.
ATLANTA, GA.—(448)

HUBINGER CO.
KEOKUK, IOWA—(501)

See Ira L. Griffin



Leesona Corp.'s Uniconer winding machine.

HUNTER, JAMES INC.
MAULDIN, S. C.—(465)

EXHIBIT: Their multi-tuft bale blender; new cotton cleaner; self-contained condenser; automatic weighing belt blending conveyor; psychrometer and electronic equipment; fiber locker needle felting machine.
IN ATTENDANCE: James Hunter, R. Hunter, Wm. F. Leineweber, Jr., A. V. Moody, H. Creegan, Ray Plumb, L. V. Neese, H. A. Brown, Jr., W. B. Estes, L. Girard, E. Connelly, D. B. Powers.

HURLEY & HARRISON, INC.
GREENVILLE, S. C.—(227)

EXHIBIT: All types of card clothing of Benjamin Booth Co.; nylon core belting of I. Foulds & Son; plastic pickers, lug straps and sweepsticks of Garland Mfg. Co.; pneumatic roll pickers of M. B. Products; spools and bobbins of M. H. Parks Co.; and leather transmission belting of Warren Belting Co.
IN ATTENDANCE: W. F. Hurley, H. W. Harrison, R. C. Hurley.

HYATT BEARINGS DIV.
HARRISON, N. J.—(104)

HYSTER CO.
DANVILLE, ILL.—(480-81)

IBM CORP.
NEW YORK, N. Y.—(460)

EXHIBIT: Data processing and data collection systems, electronic typing calculator and electric typewriters.
IN ATTENDANCE: J. H. Temple.

IDEAL INDUSTRIES, INC.
BESSEMER CITY, N. C.—(239-240)

EXHIBIT: Two-delivery drawing frame, equipped to operate at 750 fpm and to coil into 18x42" cans.
IN ATTENDANCE: J. R. Whitehurst, A. S. Roebuck, F. B. McDonald, E. S. Livingston, W. L. Whitley, J. Rayfield, B. Hoyle.

ILG ELECTRIC VENTILATING CO.
CHICAGO, ILL.—(241-242-A)

EXHIBIT: Equipment for heating and ventilating.
IN ATTENDANCE: C. Z. Adams, W. T. Foreman, F. H. Bigelow, W. B. Britton, J. H. Johnson, J. J. Friedler, Jr.

INSTRUMENTS, INC.
TULSA, OKLA.—(426)

See W. K. Hile Co.

INTER-CON-TEX IMPORT CO.
NEW YORK, N. Y.—(432)

See Holt Associates

INDUSTRIAL COATINGS, INC.
GREENVILLE, S. C.—(214)

EXHIBIT: Teflon coated items of equipment as used in the textile industry.
IN ATTENDANCE: H. E. Russell.

INDUSTRIAL DRYER CORP., THE
STAMFORD, CONN.—(466)

EXHIBIT: Fully automatic "H-W" conditioner.
IN ATTENDANCE: P. H. Friend, F. W. Caesar.

INTERNATIONAL CORRESPONDENCE SCHOOL
SCRANTON, PA.—(336)

JACOBS BROTHERS
CLINTON, S. C.—(334)

EXHIBIT: Posters and other printed materials for textile plants.
IN ATTENDANCE: H. S. Jacobs, Wm. P. Jacobs.

JACOBS, E. H.
CHARLOTTE, N. C.—(422)

EXHIBIT: Complete line of loom supplies.
IN ATTENDANCE: Wm. R. Muller, C. W. Cain, L. I. Foneberger, R. M. Briggs, D. H. Stansell, S. B. Henderson, F. W. Beaver.

JAMESBURY CORP.
WORCESTER, MASS.—(483)

JENKINS BROS.
NEW YORK, N. Y.—(453-54)

JENKINS METAL SHOPS, INC.
GASTONIA, N. C.—(838)

EXHIBIT: All types of metal fabrications for the textile industry.
IN ATTENDANCE: M. H. Creighton, J. S. Jenkins, C. Jenkins, J. O. Goldwire, J. P. Goldwire, W. Paysour, R. Newman, P. Edwards.

JOHNSON CORP., THE
THREE RIVERS, MICH.—(437-38)

EXHIBIT: Complete line of their various types of rotary pressure joints, solenoid operated valves, instant steam water heater, compressed air separators and aftercoolers.
IN ATTENDANCE: R. W. Gotschall, J. E. Dal Ponte.

JOHNSON & SON, INC., S. C.
RACINE, WIS.—(307)

EXHIBIT: Floor maintenance materials.
IN ATTENDANCE: J. F. Nieman.

KANEGAFUCHI MACHINE CO.
OSAKA, JAPAN—(905)

See Edward S. Rudnick

KEEVER STARCH CO., THE
COLUMBUS, OHIO—(407)

EXHIBIT: Samples of their various starches.
IN ATTENDANCE: J. F. Kurtz, R. L. High, C. C. Switzer, F. M. Wallace, R. H. Cates, Jr., R. F. Guill, E. T. Hackworth, C. B. Phillips, T. S. Richbourg, S. S. Rice, Jr.

KENYON, WM. & SON, INC.
PERTH AMBOY, N. J.—(508)

KEYSTONE LUBRICATING CO.
PHILADELPHIA, PA.—(402)

EXHIBIT: Lubricants and greases, relief type fittings.
IN ATTENDANCE: W. F. Boger, C. W. Little, R. M. Goss, N. W. Benjamin.

KIDDE TEXTILE MACHINERY CORP.
BLOOMFIELD, N. J.—(478)

EXHIBIT: First-time showing of their 168" tricot knitter, their slasher and Model 158G fiberglas warper.
IN ATTENDANCE: W. J. Behr, Jr., H. W. Ruddick, Dan McCoy, D. O. Shepherd.

KLUTZ RINGS, INC.
GASTONIA, N. C.—(110-A)

LAMBETH ROPE CORP.
KINGS MOUNTAIN, N. C.—(222)

EXHIBIT: Cotton and nylon spindle tapes and webbings, and tape bonding and cutting machines.
IN ATTENDANCE: J. P. O'Leary, H. B. Askew.

LANE, W. T. BROS., INC.
POUGHKEEPSIE, N. Y.—(212)

With Greenville Textile Supply

LaSALLE STEEL CO.
CHICAGO, ILL.—(352-353)

EXHIBIT: Various types of their steel bars.
IN ATTENDANCE: W. V. Trifiro, G. D. Boyer, W. E. Schneider, C. W. Bimba, R. J. Burkhardt.

LEAGUE MFG. CO., G. F.
GREENVILLE, S. C.—(106-A)

EXHIBIT: Their usual line of precision wood parts; in addition they will show a new design positive adjustment jack stick and strap; also new dye tub winder spud; Cronland loom beams and Great American Industries neoprene fatigue matting.
IN ATTENDANCE: G. F. League, G. F. League, Jr.

LEESONA CORP.
PROVIDENCE, R. I.—(810-811)

EXHIBIT: Uniconer winding machine; Holt precision unit winder; #210 twister coner; portable uniformity meter; Unifil loom winder.

LENKOTEX CO.
NEW YORK, N. Y.—(120)

EXHIBIT: Roller bearing spindles; spinning and twisting rings; paper tubes and bobbins; temple rolls; plastic pickers; shuttle truing machine; plastic pin strips; and Touro-Strob a stroboscopic speed measuring and process observation device.
IN ATTENDANCE: V. Lindner.

LINCOLN ENGINEERING CO.
ST. LOUIS, MO.—(510)

EXHIBIT: Lubrication systems; paint spray equipment; air compressors, etc.
IN ATTENDANCE: R. Doss, K. Boyer, C. Lane, J. Vlazk, J. O'Donnell, R. E. Crean.

LINDLY & CO., INC.
MINEOLA, L. I.—(827)

See Foster Machine Co.

LIVERMORE CORP. H. F. AND LOWELL INDUSTRIES, INC.
BOSTON, MASS.—(108A-109A)

EXHIBIT: HFL in Booth 108A will display typical examples of improved loom parts, while Lowell Industries in 109A will demonstrate its Vibra-Check anti-vibration material.
IN ATTENDANCE: C. Hammond, H. W. Black, L. G. Urquhart, J. G. Phillips, T. H. MacLeod, W. B. Whitehurst, J. Dalton, G. L. Davis, W. T. Jordan, J. R. Hood, E. W. Fanning, all of HFL; and J. H. Bell, A. Patelis, Jr., J. M. Stevens of Lowell.

LIVINGSTON & HAVEN, INC.
CHARLESTON, S. C.—(264)

EXHIBIT: Picker showing the long pneumatic lap control system, their pneumatic clutch and lap pin pusher; pneumatic and hydraulic equipment showing a Fuller rotary compressor, Petsch Mfg. Co. air and hydraulic cylinders; Browne & Sharpe hydraulic valves and pumps; Oil-Dyne hydraulic equipment; and Westinghouse Air Brake pneumatic equipment.
IN ATTENDANCE: M. D. Haven, A. C. Flint, W. P. Durst, W. A. Wallace, Jr.

LIVINGSTON COATING CORP.
CHARLOTTE, N. C.—(201)

EXHIBIT: Teflon coatings and tapes, fluidized bed coating system, fiberglas tanks, new type of air-dry anti-stick coating.
IN ATTENDANCE: S. Livingstone, A. Small.

LOCKWOOD GREENE ENGINEERS, INC.
SPARTANBURG, S. C.—(220-A)

EXHIBIT: Photos and literature on textile plants designed and built by them.
IN ATTENDANCE: H. M. Rogers, J. C. Hipp, T. O. Ott, J. Z. Robinette, M. L. Boggs, M. V. Gelders, H. H. St. John, C. G. Richardson, R. Simpson.

LOWELL INDUSTRIES, INC.
BOSTON, MASS.—(108A-109A)

M. B. PRODUCTS
DETROIT, MICH—(227)

See Hurley & Harrison

MACHINERY ELECTRIFICATION, INC.
Northboro, Mass.—(506)

See Electro Motion Corp.

MAGNESIUM CO. OF AMERICA
HIALEAH, FLA.—(115-B)

See Engineering Sales Co.

MAIER, C. EUGEN
STUTTGART, GERMANY—(128)

See Watson & Desmond

MANTON-GAULIN MFG. CO.
EVERETT, MASS.—(818)

EXHIBIT: Textile homogenizer, colloid mill, and laboratory homogenizer.
IN ATTENDANCE: D. G. Colony, G. W. Eldridge, J. J. Dwyer, D. Van Roosen, L. H. Rees, C. H. Leveritt, J. E. R. Hayes, E. Hart, L. Hayes.

MARSH STENCIL MACHINE CO.
BELLEVILLE, ILL.—(319)

EXHIBIT: Stencil cutting machines, tape dispensers, and marking supplies.
IN ATTENDANCE: E. G. Krause.

MARSHALL & WILLIAMS
GREENVILLE, S. C.—(49-251)

EXHIBIT: Newly designed tenter; line of repair parts for tenters; edge guide controls; line of tenter clips.
IN ATTENDANCE: J. C. Nash, F. H. Land, A. J. Marshall, E. E. Ford, Wm. C. Brown, F. Hyatt, C. W. Schmidt, Jr. C. Keep.

MASTER ELECTRIC CO.
DAYTON, OHIO—(144-145)

See Reliance Electric Co.

MATHIS WATER TREATING CO.
ANDERSON, S. C.—(310)

EXHIBIT: Water testing equipment, corrosion meters, chemical feed pumps, and mixing equipment.
IN ATTENDANCE: J. C. Mathis, G. F. Meenaghan.

MATRIX CONTROLS CO., INC.
SOMERVILLE, N. J.—(901)

McDONOUGH POWER EQUIPMENT, INC.
McDONOUGH, GA.—(246)

EXHIBIT: Their universal card coilers.
IN ATTENDANCE: J. L. Sinback, W. Phillips, W. A. Wallace.

MEADOWS MFG. CO.
ATLANTA, GA.—(812)

EXHIBIT: Their Jumbo carpet yarn twister; 25" width twister; Speedmaster tire cord cable twister; and twisting and spinning accessories.
IN ATTENDANCE: E. D. Meadows, A. F. Gandy, J. C. Martin, B. J. Wright, P. N. Scaraboro, M. Coleman, J. R. Caldwell.

MECHANICAL FELT & TEXTILES CO.
WEEHAWKEN, N. J.—(273)

IN ATTENDANCE: H. R. Dederick, W. W. Weppler, H. M. Joyce, M. H. Dorsey, J. G. Moller, W. Paulus of Kratzen-Manufactur Walter Paulus, Germany.

MEDLEY MFG. CO., INC.
COLUMBUS, GA.—(907)

EXHIBIT: As representatives for Societe Alsacienne de Constructions Mecaniques of France, they will show two high speed, 2-delivery Model ER SACM drawing frames, also the SACM Model Perl high speed wool comb.
IN ATTENDANCE: L. H. Morrison, R. Shelton, J. Berry.

MERROW MACHINE CO.
HARTFORD, CONN.—(234)

With Hollister-Moreland

METLON CORP.
NEW YORK, N. Y.—(271)

EXHIBIT: Metallic yarns and fabrics woven and knitted with these yarns.
IN ATTENDANCE: A. C. Brucks, H. C. Cobb, Jr., R. H. Fleming.

METTLER INSTRUMENT CORP.
HIGHTSTOWN, N. J.—(302)

EXHIBIT: First showing of their completely new weighing instrument for textile laboratories; also milligram balances and dye house scales.
IN ATTENDANCE: N. L. Cooper, R. Moeller.

MINNESOTA MINNING & MFG. CO.
ST. PAUL, MINN.—(845)

EXHIBIT: Variety of tapes for industry and a new high speed textile splicer.
IN ATTENDANCE: G. F. Pyle, J. H. Mellon, H. F. Groth, R. W. Fagen, F. T. Baltz.

MINNESOTA PAINTS, INC.
ATLANTA, GA.—(326-327)

MITCHAM & CO., HARLEY
GASTONIA, N. C.

EXHIBIT: Machinery repair parts, such as gears, studs, bearings, etc.
IN ATTENDANCE: Don O'Hair, R. W. Bailey, Ch. Stover, J. Styers, H. Grant, Mrs. E. Mitcham Stroup, Mrs. L. Mitcham Andrews, Mrs. A. Mitcham.

MITCHELL-BISSELL CO.
TRENTON, N. J.—(430)

EXHIBIT: Textile thread guides, incl. chromium plated wire guides, porcelain guides and ceramic guides.
IN ATTENDANCE: J. R. Mitchell, Wm. F. Fuetterer, J. P. Mueller.

MODERN TEXTILES MAGAZINE
NEW YORK, N. Y.—(121)

MOFFATT BEARINGS CO.
PHILADELPHIA, PA.—(265)

EXHIBIT: Ball and roller bearings, special purpose bearings for textile machinery, oil seals, retaining rings and bearing lubricants.
IN ATTENDANCE: J. L. Blackwell, J. R. Milford, W. B. Osborne, S. D. Zeanah, J. Dean, R. M. Johnston, R. Womble, H. W. McCard, D. G. Hornbaker, O. S. Livingston, G. Sheppard, Don Duncan.

MONROE CALCULATING MACHINE CO.
ORANGE, N. J.—(343-45)

EXHIBIT: Their Monrobot IX electronic billing machine; data processing machines; and accounting, calculating and adding machines.
IN ATTENDANCE: L. A. Dumas, J. C. Downing, B. T. Burry, W. R. Corbin, Wm. Hobgood, E. S. Cabaniss, Jr., S. P. Greer, Miss E. Scattergood.

MORTON SALT CO.
CHICAGO, ILL.—(509)

EXHIBIT: Their new Polyester Brinemaker; also samples of their salts for textile industry.
IN ATTENDANCE: J. M. Culp, A. C. Dewey, E. R. Ravenel, J. B. Neill, H. H. Jackson, N. W. Birchler, Jr.

MOTO-TRUC CO.
CLEVELAND, OHIO—(834)
See Baker Mfg. Co.

MOUNT HOPE MACHINERY CO.
TAUNTON, MASS.—(114)

EXHIBIT: Movie of their weft straightening equipment, including their Skew Liner.
IN ATTENDANCE: J. D. Robertson, Jr., S. A. Moffitt and sales engineers of Slaughter Machinery Co.

MURPHY FUR CO., T. J.
LEWISTON, ME.—(223)

EXHIBIT: Shuttle furs and roll covering.
IN ATTENDANCE: D. S. Murphy, E. Carmen, H. L. Cannon, L. Shook, J. Farish, H. Alford, Ch. Mount.

NATIONAL CASH REGISTER CO.
DAYTON, OHIO—(365-66)

EXHIBIT: Their new Compu-Tonic machine, and other machines for office work.

NATIONAL PLASTICS, INC.
KNOXVILLE, TENN.—(449)
See Yeomans Textile Machinery

NATIONAL RING TRAVELER CO.
PAWTUCKET, R. I.—(213)

EXHIBIT: Samples of textile ring travelers.
IN ATTENDANCE: N. A. Jerome, L. E. Taylor, H. B. Askew, T. H. Ballard, F. S. Beacham, C. L. Fitts.

NATIONAL STARCH & CHEMICAL CO.
NEW YORK, N. Y.—(455)

EXHIBIT: Their products Kofilm and Resin 3600.
IN ATTENDANCE: J. F. Fitzgerald, W. H. Stone, D. Lassiter, E. Maslanka, H. Smith, E. Gibbon, H. C. Olsen, R. B. O'Brien, G. Lanciault.

NATIONAL VULCANIZED FIBRE CO.
JOHNSON CITY, N. Y.—(212)

EXHIBIT: Trays, boxes, roving cans and floor trucks of their Kennett Materials Handling Division; bobbins and spools of their Lestershire Spool Div.
IN ATTENDANCE: E. B. Burnley, J. C. Davis, D. A. Williams, Jr., Will-Best Plowden, E. J. Crocker, L. A. Matthews, G. M. Lang.

NEW DEPARTURE DIV.
BRISTOL, CONN.—(146)

NEW ENGLAND PAPER TUBE CO.
PAWTUCKET, R. I.—(128)
See Watson & Desmond

NEW YORK & NEW JERSEY LUBRICANT CO.
NEW YORK, N. Y.—(109)

EXHIBIT: Non-Fluid Oil for lubrication of all types of textile machinery.
IN ATTENDANCE: I. L. Hall, F. W. Phillips, J. A. Sorrells, Jr., A. M. Cowan, R. F. Bagwell, Jr., F. W. Winecoff (R. A. Snipes.

NILFISK OF AMERICA, INC.
GREENVILLE, S. C.—(320)

EXHIBIT: Cleaning equipment for textile machinery.
IN ATTENDANCE: E. W. Henning and sales representatives.

NOBLE CO., ROY
NEW BEDFORD, MASS.—(223)
See Batson Mfg. Co.

NORRIS BROTHERS
GREENVILLE, S. C.—(432)
See Holt Associates

NUTTING TRUCK & CASTER CO.
FARIBAULT, MINN.—(115-B)
See Engineering Sales Co.

O-M SPINNING MACHINE MFG. CO.
OSAKA, JAPAN—(905)
See Edward S. Rudnick

OIL-DYNE INC.
CHICAGO, ILL.—(264)
See Livingston & Haven

OLNEY PAINT CO.
SPARTANBURG, S. C.—(446)
See Gilman Paint & Varnish Co.

ORE-LUBE CO., THE
NEW YORK, N. Y.—(341-342)
See General Enterprises

PADDOCK CO., J. C.
SPARTANBURG, S. C.—(442)

EXHIBIT: Collapsible cloth skid, floating bottom creel truck, and fiber boxes.
IN ATTENDANCE: S. E. Mabry, L. E. Corn, R. H. Wiliams.

PARKS-CRAMER CO.
FITCHBURG, MASS.—(502)

EXHIBIT: Their complete line of traveling cleaner equipment, the SpinSaVac and SpinSaCreel, and their certified climate systems.
IN ATTENDANCE: M. Ford, C. D. Lee, Jr., W. W. Hewitt, E. H. Harding, W. J. Buck, J. F. Crooks, W. B. Granger, J. Nesmith, T. F. Rollins, L. R. Sibley, C. E. Ware and W. B. Walker.

PARKS, M. H. CO.
WINCHENDON, MASS.—(227)
See Hurley & Harrison

PATTERSON-KELLEY CO., INC.
EAST STROUDSBURG, PA.—(360)

EXHIBIT: Plastic working model of hot water heating system for process water; also waste water heat reclaimer, flash steam condenser and other process water equipment.
IN ATTENDANCE: J. J. Coleman, J. N. Peters, N. Ermolovich, T. C. Heyward.

PAYSON-HARRIS-REED CORP.
CHICAGO, ILL.—(838)
See Jenkins Metal Shops

PENICK & FORD, LTD., INC.
ATLANTA, GA.—(427-428)

EXHIBIT: Starches and starch derivatives from corn as used in warp sizing and finishing.
IN ATTENDANCE: O. H. Tousey, D. P. O'Connor, P. G. Wear, G. M. Anderson, J. R. Heard, J. P. Holland, J. H. Almand, G. C. Henry, W. J. Kirby, T. H. Nelson, J. R. Poer, D. K. Smith.

PENNELL, GEO. H. CO.
GREENVILLE, S. C.—(110B)

EXHIBIT: Equipment, tools and system for fastening machinery into steel and concrete.
IN ATTENDANCE: G. H. Pennell, C. L. Garret, J. L. Blackerby, R. S. McKinley.

PERFECTING SERVICE CO.
CHARLOTTE, N. C.—(409-410)

EXHIBIT: Their Rotary Union joint and Unitrap; also from their Precision Gear Div. new Vari-Pitch Builder for making heavier roving bobbins, Jet Stripper, and Vari-Tension Winding Regulator.
IN ATTENDANCE: A. J. DeMeyer, C. Bookout, Wm. G. Renner and others.

PERMACEL
NEW BRUNSWICK, N. J.—(335)

EXHIBIT: Pressure-sensitive tapes and adhesives for processing, maintenance and packaging.
IN ATTENDANCE: G. A. Fitzgerald, J. E. Schuler, R. S. Bradford, J. W. Griffin.

PEROLIN CO., INC., THE
NEW YORK, N. Y.—(361)

EXHIBIT: Complete line of maintenance chemicals for scale and corrosion control in steam boilers, air conditioning and refrigeration systems.
IN ATTENDANCE: K. C. Gilmore, H. J. Waff, Jr.

PICANOL, S. A.
YPRES, BELGIUM—(839)

PIEDMONT MACHINE SHOPS, INC.
GASTONIA, N. C.—(322)

PIONEER HEDDLE & REED CO., INC.
ATLANTA, GA,—(212)
With Greenville Textile Supply

PNEUMAFIL CORP.
CHARLOTTE, N. C.—(118-119)

EXHIBIT: Pneumafil vacuum end collectors; Pneumastop roving frame stop motion; and Electrofil roving frame stop motion.
IN ATTENDANCE: C. R. Harris, J. W. Barr, M. E. Herndon, G. E. Archer, W. W. Lloyd, D. J. Thorp, G. C. Fryer.

POE HARDWARE & SUPPLY CO.
GREENVILLE, S. C.—(516)

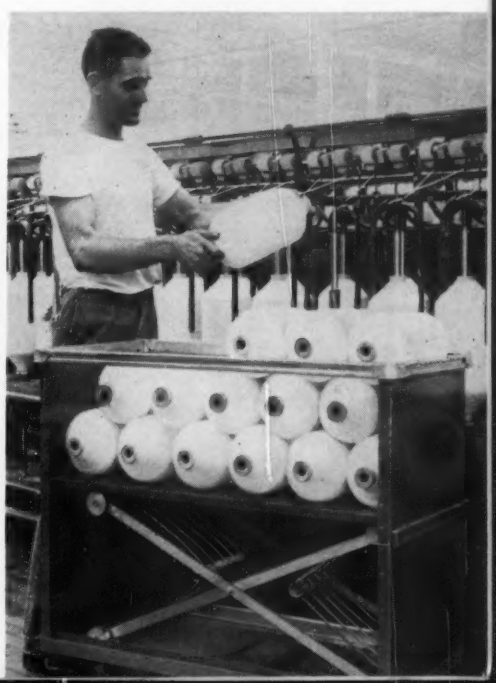
EXHIBIT: Coated abrasives, polishing & grinding wheels by 3M Co.; precision tools by Brown & Sharpe Mfg. Co.; lathes, presses and other tools by Rockwell Mfg. Co.
IN ATTENDANCE: Crawford Poe, Carter Poe, W. T. Henderson, Jr., J. J. Swan, J. F. Massey, H. Graham, H. Moore, J. Hawkins, J. Long, W. Childress, O. Vinson. Also for Brown & Sharpe, Ch. Harrop, B. Loring, for Rockwell, J. Selvage, and for 3M, R. Fessler.

POWER BRUSHES, INC.
TOLEDO, OHIO—(324)

POWERS REGULATOR CO., THE
SKOKIE, ILL.—(355)

EXHIBIT: New line of temperature controllers and valves.
IN ATTENDANCE: E. Foss, B. Arbuckle, C. Carter, B. Vehorn, C. Atkinson, J. Slattery, B. List, A. Carlson.

PRECISION GEAR DIV.
CHARLOTTE, N. C.—(409-410)
See Perfecting Service Co.



National Vulcanized Fibre Co.'s "floating" textile truck.

PROCTOR & SCHWARTZ, INC.
PHILADELPHIA, PA.—(503)

EXHIBIT: Their new #729B Blending Feed; also photos and drawings of their new Proctor-Kiefer suction drum dryers, their resin finishing range, float and tenter dryers, rotary polymerizer, and the Proctor-Form for non-woven fabrics.
IN ATTENDANCE: J. P. Christ, D. D. Cunningham, A. C. Dailey, L. M. Christianson, E. W. Gehrung, C. W. Schwartz, IV.

PROGRESSIVE ENGINEERING INC.
ROCKLAND, MASS.—(128 & 906)
See Watson & Desmond

PURE OIL CO., THE
CHICAGO, ILL.—(105)

EXHIBIT: Complete line of textile lubricants, featuring a new series of Rollex greases.
IN ATTENDANCE: J. M. Cooper, W. M. Elam, R. G. Morrison, J. A. Williamson, W. J. Derksen, C. D. Walthall, W. D. Cawley, P. W. Freeman.

PURITAN CHEMICAL CO.
ATLANTA, GA.—(418-419)

EXHIBIT: Their service and products for plant sanitation, especially floor finishes.
IN ATTENDANCE: W. H. Frey, E. P. Collins, H. P. Hartley, H. S. Collinson, C. B. Shugart, H. M. Boniske, G. Wright.

RADIO CORP. OF AMERICA
CAMDEN, N. J.—(347-348)

EXHIBIT: An RCA metal detector in operation.
IN ATTENDANCE: G. S. Stanley, J. H. Adams.

RAMSET FASTENING SYSTEM
CLEVELAND, OHIO—(110-B)
See Geo. H. Pennell

RAYMOND CORP., THE
GREENE, N. Y.—(458)

EXHIBIT: Narrow aisle industrial electric trucks, incl. clamp trucks for handling bales and rolls, high stacking truck, and new walkie stacker.
IN ATTENDANCE: W. L. Peck, W. M. Anderson.

REEVES PULLEY CO.
COLUMBUS, IND.—(144-145, 903)
See Reliance Electric

REINERS & FUERST
M. GLADBACH, GERMANY—(128)
See Watson & Desmond

RELIANCE ELECTRIC & ENGINEERING CO.
CLEVELAND, OHIO—(144-145)

EXHIBIT: A variety of their electric motors and drive products; also the new Reeves Model 1200-T Vari-Spin drive.
IN ATTENDANCE: E. G. Orahood, C. D. Wright, J. G. King, J. H. Chambers, S. W. Smith, J. R. Cowan, B. Stinogel, M. G. Harge, F. W. Leitner, A. W. Fairer, J. W. Jordan, W. C. Prettyman, R. O. Baker, D. E. Hight, G. Van Buskirk, R. G. Wilson.

RHOADS & SONS, J. E.
WILMINGTON, DEL.—(471)

EXHIBIT: Belt products and check straps.
IN ATTENDANCE: C. H. Tildes, U. G. Demond, L. H. Schwoebel, A. S. Jay, P. E. Lambert, H. H. Cleghorn, J. T. Hoffman.

RICE DOBBY CHAIN CO.
MILLBURY, MASS.—(432)
See Holt Associates

RIDGE TOOLE CO., THE
ELYRIA, OHIO—(435-436)

EXHIBIT: Their line of Ridgid work-saver pipe tools.
IN ATTENDANCE: W. L. Parcell, H. L. Palmer, R. D. Fye, J. Wall, L. C. Richardson, F. Ronan, H. Radican.

RIETER CO., LTD.
WINTERTHUR, SWITZERLAND—(820-821)
See American Rieter Co.

ROBERTS CO.
SANFORD, N. C.—(808)

EXHIBIT: New Arrow M-1 high speed frame running at 15,000 rpm; Arrow WM-1 worsted frame.
IN ATTENDANCE: R. E. Pomeranz, J. N. Pomeranz, R. Padgett, F. Walker.

ROCK, EDWARD B.
NEW YORK, N. Y.—(908)

EXHIBIT: Products of Cometsa Spindle Co. of Vergara, Spain.
IN ATTENDANCE: F. Azcargorta, E. B. Rock.

ROSE & CO., E. F.
MAIDEN, N. C.—(207)

ROSS-MEEHAN FOUNDRIES
CHATTANOOGA, TENN.—(303)

EXHIBIT: Meehanite metal and steel castings used in textile industries.
IN ATTENDANCE: D. W. Kling, P. T. Gaynor, J. L. Payne.

ROTHERM ENGINEERING CO., INC.
CHICAGO, ILL.—(215)

EXHIBIT: Joints, nozzles and humidifiers.
IN ATTENDANCE: H. S. Kuhn, H. D. Hohm.

ROY & SON CO., B. S.
WORCESTER, MASS.—(206)
Also Roy International, Inc. (Subsidiary)

EXHIBIT: Complete new line of card clothing of all types and new card flats for all cotton cards; new centerless cot grinder and card grinding equipment.
IN ATTENDANCE: F. Buonomo, D. G. Bousquet, F. J. Leppkes, of Peter Wolters Co., F. E. Barnes, E. H. Duke.

RUDNICK, EDWARD S.
NEW BEDFORD, MASS.—(905)

EXHIBIT: Kanegafuchi auto-doffer; OM-S sliver-to-yarn spinning frames; Daiwa's improved carding attachment; other equipment and supplies incl. the Spi-Ra-Clean Izumi wooden spinning tubes and filling bobbins, Godo shuttles, Nippon card clothing, Nihon spindles and automatic continuous card strippers, and others.
IN ATTENDANCE: E. S. Rudnick, Wm. Bowlin, C. McMahan, Mas Kume, Tad Hiki of Mitsui & Co., Jim Hasagawa of O-M Spinning Machine Mfg. Co.

SACO-LOWELL SHOPS
GREENVILLE, S. C.—(835A)

EXHIBIT: New double doffer condenser; spinning frame featuring new oil-less spinning change-over; spindles, rings and travelers; gears; bottom steel rolls; and change-over display to completely modernize cards.
IN ATTENDANCE: R. Walters, A. L. Landau, J. W. Hubbard, W. Hudson, J. D. Burnette, G. W. Klutz, J. B. Stutts, T. Campbell, A. Howard, S. Boyd.

SCHACHNER LEATHER & BELTING CO.
CHARLOTTE, N. C.—(228)

EXHIBIT: Take-up roll covering; their Schaco treated long draft spinning aprons and a treated box front and binder leather.
IN ATTENDANCE: J. A. Schachner, Jr., B. M. Schachner, P. G. Schachner, J. L. Harkey.

SCHARER TEXTILE MACHINE WKS.
ERLENBACH-ZURICH, SWITZERLAND—(449)
See Yeomans Textile Machinery Co.

SCHLAFHORST & CO., W.
M. GLADBACH, GERMANY—(482)
With Terrell Machine Co.

SCHMIDT MFG. CO. OF S. C.
GREENVILLE, S. C.—(456)

EXHIBIT: Loom accessories; Shirley loom and fabric testing instruments; Microshave temples with floating cutters; a patented bar temple; Grobtex lightmetal harness frames; Matador reed cleaning and polishing machine; shuttle adjusting machine.
IN ATTENDANCE: L. O. Talley, Ted Huston, J. Motta, O. Walker, E. Farmer, A. Couturier, W. Grant, C. Schmidt, R. Schmidt.

SCOTT TESTERS, INC.
PROVIDENCE, R. I.—(401)

EXHIBIT: Model CRE newly developed electronic strain gauge type tester; Model X-3 tear and tensile tester; Model T-1 for twist determinations of plied and cabled yarns; and yarn handling and reeling equipment for laboratories and quality control departments.
IN ATTENDANCE: J. E. Hargreaves, W. E. Anderson.

SELIG COMPANY, THE
ATLANTA, GA.—(232)

EXHIBIT: Equipment and products for floor and sanitary maintenance.
IN ATTENDANCE: W. F. Bode, A. Hamburger, L. Strasburger, C. Pearl, B. Hyatt, S. Hayes, M. Doctor, C. Vickery.

SEYDEL-WOOLLEY & CO.
ATLANTA, GA.—(238)

EXHIBIT: Complete line of textile wet processing chemicals and warp sizing compounds.
IN ATTENDANCE: V. Woolley, P. Seydel, J. Seydel, W. LaGrone, D. Meriwether.

SHELL OIL CO.
NEW YORK, N. Y.—(103)

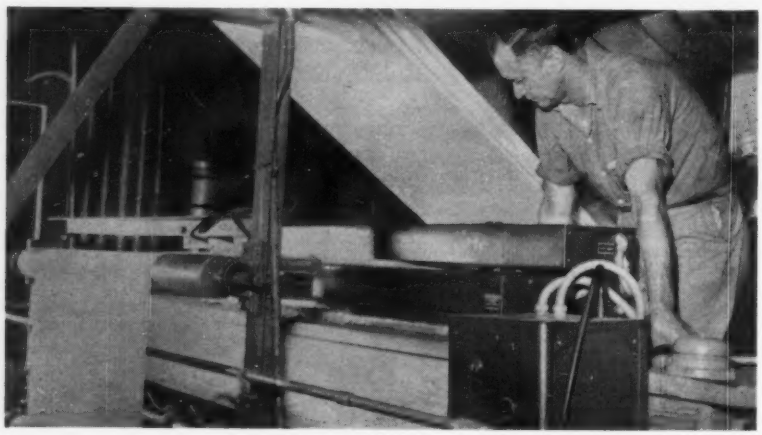
SHERRILL MFG. CO., INC.
GASTONIA, N. C.—(270, 909)

SIGNODE STEEL STRAPPING CO.
CHICAGO, ILL.—(835-B)

EXHIBIT: Strapping machine and tools, strap feeders, dispensers, cutters and accessories.
IN ATTENDANCE: M. L. Fagin, C. H. Carlson, R. S. Schwerman, T. O'Neal, J. Garrett, C. Talbutt, L. Sierra, R. Atwood, J. Burch, M. Helsley, J. M. Moon, M. C. Carlson.

SIRRINE CO., J. E.
GREENVILLE, S. C.—(204)

Booth to serve as reception room.
IN ATTENDANCE: R. R. Adams, F. B. Bozeman, W. L. Carpenter, R. B. Epting, G. C. Gaskin, J. T. Higgins, C. J. Liles, H. W. Meakin, W. H. Nardin, W. A.



RCA's metal detector scanning fabric for metallic particles.

Robinson, M. M. Stokely, A. D. Asbury, J. H. Bringhurst, Jr., W. H. Crumley, H. S. Forrester, E. E. Gerken, S. M. Hunter, M. Lite, I. J. Mikell, G. P. Patterson, L. A. Seaborn, C. T. Wise, J. K. Blackman, L. W. Burdette, G. W. Cumbus, H. W. Frederick, O. F. Going, M. C. Kendrick, F. M. Martin, G. R. Morgan, A. M. Rickman, Jr., J. F. Spellman, G. Wrigley, Jr.

SKINNER VALVE DIV.
NEW BRITAIN, CONN.—(264)
See Livingston & Haven

SLIP-NOT BELTING CORP.
KINGSPORT, TENN.—(346)

SMITH ENTERPRISES INC.
ROCK HILL, S. C.—(318)
EXHIBIT: Safety award and employee Christmas programs.
IN ATTENDANCE: H. F. Burris, F. Morecock.

SNOWISS FUR CO., B.
LOCKHAVEN, PA.—(432)
See Holt Associates, Inc.
IN ATTENDANCE: B. Snowiss.

SNYDER, M. R. CO.
CHARLOTTE, N. C.—(903)

SOCIETE ALSACIENNE DE CONSTRUCTIONS MECANIQUES
MULHOUSE, FRANCE—(907)
Represented in U.S.A. by Medley Mfg. Co., Inc., Columbus, Ga.
EXHIBIT: Their Model ER high speed 2-delivery drawing frame and high speed wool comb.
IN ATTENDANCE: L. H. Morrison, R. Shelton, J. Berry.

SONOCO PRODUCTS CO.
HARTSVILLE, S. C.—(244)
EXHIBIT: Complete line of cones, tubes, cores, spools, bobbins, folding boxes and paper specialties.
IN ATTENDANCE: C. H. Campbell, C. W. White, C. B. Harper, W. R. Gunnells, W. M. Carpenter, A. P. Hearon, P. F. Williams, W. R. Peacock, B. H. Biggs, H. M. Adams, W. K. Lewis, Jr., J. A. Reagan, Jr.

SOUTHEASTERN LOOM & MACHINE WKS.
GREENWOOD, S. C.—(130-131)
EXHIBIT: Maxbo shuttleless loom; also their high speed loom, loom parts, card and drawing coilers, spinning frame pulley spindle drives, pumps and hydraulic presses.
IN ATTENDANCE: C. L. Beaudrot, J. Harrison, B. Flynn.

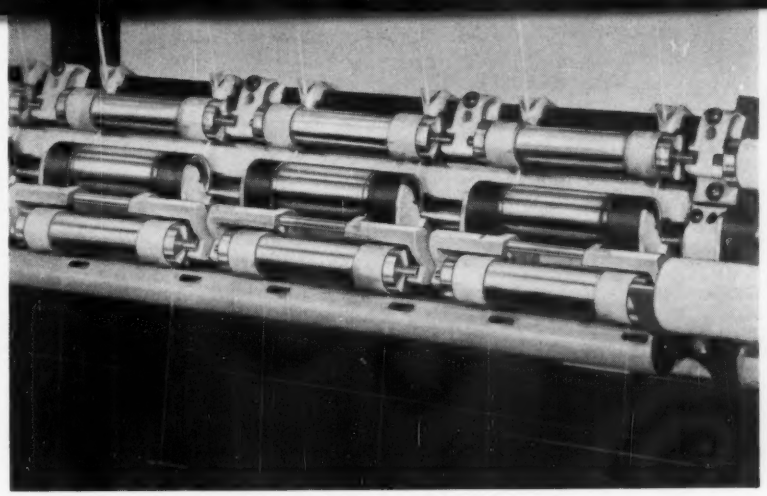
SOUTHEASTERN SAFETY APPLIANCES
ATLANTA, GA.—(301)
EXHIBIT: Industrial fire-fighting equipment, first-aid supplies & equipment, and other safety appliances; also industrial telephonic equipment.
IN ATTENDANCE: G. D. Johnson, Sr., P. H. Ellington, C. L. Thomas, Jr., G. D. Johnson, Jr.

SOUTHERN MACHINERY CO.
GREENVILLE, S. C.—(515)
EXHIBIT: New Draper XD loom equipped with Hunt let-off.
IN ATTENDANCE: J. W. Stuart, A. E. Cutting, E. J. Williams, F. E. Hooper.

SOUTHERN RUBBER CO.
GREENSBORO, N. C.—(274)
EXHIBIT: Rubber products for the textile industry, also V-Belts and other belting, and Armstrong cork materials for gaskets.
IN ATTENDANCE: E. M. Mateer, C. A. Keeley, R. M. Bateman, H. E. Bowman, D. K. Tomlinson, N. W. Caney, C. S. Keeley, W. H. Vestal.

SOUTHERN STATES EQUIPMENT CORP.
HAMPTON, GA.—(266)
EXHIBIT: Complete coilers and coiler conversions of all sizes card drives, can dollies and comb boxes.
IN ATTENDANCE: C. W. Walter, F. Birchfield, J. Waters, W. N. Knapp, B. Watkins.

SOUTHERN TEXTILE NEWS
CHARLOTTE, N. C.—(313)



Close-up of Saco-Lowell's Magnedraft Changeover.

SPAULDING FIBRE CO.
ATLANTA, GA.—(202)
EXHIBIT: Vulcanized fibre seamless roving cans; fibre trucks; conditioning boxes; doff and quill boxes; Spauldite lap rolls.
IN ATTENDANCE: A. R. Whitehouse, D. F. Dawson, B. C. King.

SQUARE D COMPANY
CHARLOTTE, N. C.—(847-48)
EXHIBIT: Starters, adjustable speed drives, and switchgear.
IN ATTENDANCE: D. Carter, H. Prescott, I. Swanson, L. Murrans.

STALEY MFG. CO., A. E.
DECATUR, ILL.—(412)
EXHIBIT: Their high temperature converter.
IN ATTENDANCE: L. E. Doxsie, N. K. Hammer, E. H. Grosse, W. N. Dulaney, H. Ector, H. A. Mitchell, D. A. Barnes, C. H. Adams, C. Garren, L. McCall, B. O. Meritt.

STANDARD CONVEYOR CO.
ST. PAUL, MINN.—(115B)
EXHIBIT: Their new Escaveyor continuous vertical conveyor for high speed operation.
IN ATTENDANCE: S. R. Brookshire, M. E. Richardson.

STANLEY WORKS, THE
NEW BRITAIN, CONN.—(457, 467-468)
EXHIBIT: The Steel Strapping Div. will show a complete line of hand and power strapping tools; the Magic-Door Div. will display its Magic-Door equipment.
IN ATTENDANCE: For Steel Strapping, J. H. W. Conklin, G. H. Stephenson, D. T. Armington, J. A. Dickson, R. V. Slaker, R. F. Brown, W. L. Tolson, C. J. Turple, R. D. Burdette. For Magic-Door: Wm. Bray, Wm. Gubas of Stanley; and F. M. Hatcher, T. Bobbitt, J. Cobb of Hatcher Sales, their representative.

STEARNS ELECTRIC CORP.
MILWAUKEE, WIS.——(903)
Together with Stearns Magnetic Corp.

STEEL HEDDLE MFG. CO.
PHILADELPHIA, PA. AND GREENVILLE, S. C.—(137)
EXHIBIT: Loom harness equipment; all types of shuttles; reeds: quills, picker sticks, drop wires, and warp preparation equipment.
IN ATTENDANCE: H. W. Fehr, J. J. Kaufmann, F. H. Kaufman, A. J. Kieney, G. D. McGill, H. P. Goodwin, S. R. Zimmerman, D. L. Batson, R. B. Stevens, G. D. Macintyre.

STEIN, HALL & CO.
NEW YORK, N. Y.—(425)
Booth to serve as reception room.
IN ATTENDANCE: R. Strasser, D. H. Lipman, L. F. Costello, N. H. Nuttall, E. D. Estes.

STERLING ENG. & MFG. CO.
WILKES-BARRE, PA.—(216)
EXHIBIT: Self-stacking boards, aluminum quill boards and self-stacking tube boards with flexible holders, also yarn handling trucks.
IN ATTENDANCE: McGee.

STEWART-WARNER CORP.
CHICAGO, ILL.—(803)

STRANDBERG ENGINEERING LABORATORIES, INC.
GREENSBORO, N. C.—(504)
EXHIBIT: Their moisture monitor in various models, also their indicator Model M-101 for slashers, dryers and pickers moisture control Model M-600 for slashers and dryers, and portable moisture meter Model M-200.
IN ATTENDANCE: C. F. Strandberg, W. E. Plemmons, C. B. Pederson, C. A. Matthews, F. N. Houston.

STURDI-BILT MATERIALS HANDLING
CHICAGO, ILL.—(480-81)
See Wrenn Bros.

SUPERIOR BOLSTER CO.
GASTONIA, N. C.—(505)

SYLVANIA LIGHTING PRODUCTS
CHARLOTTE, N. C.—(414)
EXHIBIT: Lighting equipment and industrial electronic tubes.
IN ATTENDANCE: H. R. McClellan, J. F Hagan, C. C. Beyer, T. E. Blackwell.

TAKK CORP., THE
NEWARK, OHIO—(337)
EXHIBIT: Working models of their static control equipment.
IN ATTENDANCE: W. E. Krause, W. G. Overman, W. E. Krause, Jr.

TAYLOR INSTRUMENT COMPANIES
ROCHESTER, N. Y.—(450)
EXHIBIT: Their new relative humidity transmitter, Sensaire temperature transmitter, 86K indicating control station, new Ful-Flex single case controller, and new model Card-O-Timer of Taylor-Emmett Controls, Inc.
IN ATTENDANCE: H. Olson, D. Munger, S. Levy, W. C. Gray, D. G. Warner, J. E. Barker, H. M. Messenger, R. M. Sawyer, C. H. Miller, J. E. Burnett, F. C. Douglas, J. W. Wilson, A. L. F. Caradec, H. E. McCurdy

TERRELL MACHINE CO., THE
CHARLOTTE, N. C.—(482)

TEXACO INC.
NEW YORK, N. Y.—(444-445)
EXHIBIT: Texaco lubricants and process oils as used in the textile industry.
IN ATTENDANCE: J. M. Hackney, A. C. Keiser, Jr., C. F. Walker, H. L. Lanford, J. W. Kay.

TEXIZE CHEMICALS, INC.
GREENVILLE, S. C.—(451-452)
Space to be used as reception booth.
IN ATTENDANCE: W. J. Greer, W. N. Kline, Jr., C. M. Chalmers, J. B. League, J. H. Cochran, T. D. Greer, R. L. Parker, C. A. Barrett, F. V. Tate, W. H. Layton, C. F. Stansell, C. H. Crews, J. H. Cochran, W. J. Patterson.

TEXPAK PLASTICS INC.
ROCKINGHAM, N. C.—(311-312)
EXHIBIT: Pickers, pickersticks and fiberglass trucks.
IN ATTENDANCE: J. C. Dockery, N. W. Dockery.

TEXTILE BULLETIN
CHARLOTTE, N. C.—(203)

TEXTILE INDUSTRIES
ATLANTA, GA.—(408)

TEXTILE SHOPS, THE
SPARTANBURG, S. C.—(501)
See Ira L. Griffin

TEXTILE WORLD
NEW YORK, N. Y.—(224)

TEXTUBE CORP.
STAMFORD, CONN.—(128)
See Watson & Desmond

THEILER CORP., H. J.
WHITINSVILLE, MASS.—(822-23)
EXHIBIT: A Single cylinder, type LE Staubli dobby mounted on a Ruti loom model BALXM; loom features Frohlich doup heddles and leno frames, also the new Loepfe optical electronic filling bobbin feeler; they will also demonstrate a card cutting and copying machine; a Schweiter automatic filling winder; a Benninger four-bowl laboratory padder.
IN ATTENDANCE: H. J. Theiler, H. Singer, F. Schmid, H. Badertscher, W. Keller, F. Bollinger, H. Mathey.

TOLEDO PIPE THREADING MACHINE CO.
TOLEDO, OHIO—(144)

TOLEDO SCALE
TOLEDO, OHIO—(144)

TON-TEX CORP.
ENGLEWOOD, N. J.—(431)
EXHIBIT: Their spinner and coner belting, loom strapping, card drive belts, and field vulcanizing equipment.
IN ATTENDANCE: T. A. Lombardi, D. R. Sellars, J. G. Skinner, W. W. West, W. H. Huff, C. H. Crumpton, J. P. Norman, C. Dunn.

TOWMOTOR CORP.
CLEVELAND, OHIO—(849)

TRUMETER COMPANY
NEW YORK, N. Y.—(229)
EXHIBIT: Counting and measuring instruments, electrical and mechanical units of their manufacture; also inspection, rolling and measuring machine made by Maag with Trumeter measuring apparatus.
IN ATTENDANCE: E. Seligmann, R. Jacobus, T. Aydelette.

UNION BAG-CAMP PAPER CORP.
NEW YORK, N. Y.—(350-351)

UNION STEEL PRODUCTS CO.
ALBION, MICH.—(480-481)
See Wrenn Bros.

UNITED STATES RUBBER CO.
NEW YORK, N. Y.—(317)
EXHIBIT: They will demonstrate their PowerGrip "Timing" belt and flexible coupling, and their Royal variable speed V-belt.
IN ATTENDANCE: H. P. Bond, W. J. Dawson, L. H. Green, R. L. Fleshman, R. E. Sellers, W. M. Conard, N. F. Armstrong, P. A. Alley.

U. S. RING TRAVELER CO.
PROVIDENCE, R. I.—(801)

USTER CORPORATION
CHARLOTTE, N. C.—(469)
EXHIBIT: Spectomatic electronic slub catcher, operating for first time on two winders; Ustermatic warp tying machine; Uster evenness testers—integrators; spectrograph; imperfection indicator; automatic single end strength tester; lap varimeter; tension recordograph; and West Point fiber cohesion tester.
IN ATTENDANCE: W. B. Floyd, H. Winiger, W. L. Boyd, V. H. Brockman, F. Jaggi, B. E. Sweet.

VALENTINE, IRA M.
ATLANTA, GA.—(429)

VAN VLAANDEREN MACHINE CO.
PATERSON, N. J.—(826)

VEEDER-ROOT INC.
HARTFORD, CONN.—(107)
EXHIBIT: Complete line of textile counting devices for production and incentive systems, including their new electronic Count-Paks and predetermining counters; also their Vary-Tally for use in inspection and quality control.
IN ATTENDANCE: F. J. Swords, R. C. Conant, H. B. Huff, R. L. Stoner.

WAK INDUSTRIES
CHARLOTTE, N. C.—(231)
EXHIBIT: Stretch indicator; double wheel yardage counter; special yardage counters; special counter drives; hank and pick counters; magnetic and ratchet counters.
IN ATTENDANCE: J. H. Dougherty, J. L. Cole, J. Ferguson.

WALKER CO., CHARLES
LEEDS, ENGLAND—(228)
See Schachner Leather & Belting

WARREN ENGINEERING CO.
BROADWAY, N. J.—(323)
EXHIBIT: Valves, strainers, pressure gauges, thermometers, hydraulically operated controls, vacuum breakers and regulators.
IN ATTENDANCE: T. P. Bruno, E. Streng.

WATSON & DESMOND, INC.
CHARLOTTE, N. C.—(128)
EXHIBIT: Together with Watson-Williams which will show their new Weave-ever shuttle and line of their other shuttle models, also their picker sticks. In addition, items of firms represented by them will be shown, including Zinser roller bearing spindles; Eugen Maier flyers; Reiners & Fuerst spinning and twisting rings; Ernest Toenniessen yarn inspection machines; and G. Dikkers Dubo spindle lockwashers. Other products on display are: Paper spinning tubes, quills and bobbins of Tex-Tube; dye tubes and headless package shipping tubes of N. E. Paper Tube; top rolls and Ny-Pre-Lon cradles for spinning and roving drafting system of Progressive Engineering; wood spools, large bobbins and cones of Vermont Spool & Bobbin Co.; wood quills and fibre head spools of H&P Spool & Bobbin Co.; humidifiers of Walton Laboratories; plastic yarn carriers of Modern Plastics Eng.; shuttle fur of R. M. Taylor Co.; and roving bobbin holders of Winslow, Inc.
IN ATTENDANCE: S. P. Desmond, C. E. Watson, J. A. Olwell, R. V. McPhail, J. Wyatt, E. E. Ball, H. D. Lanier, R. Norman, R. Patton, J. M. Gayle.

WATSON & WILLIAMS MFG. CO.
MILLBURY, MASS.—(128)
See Watson & Desmond

WEST CHEMICAL PRODUCTS, INC.
RICHMOND, VA.—(340)
EXHIBIT: Products for the promotion of sanitation, and floor cleaning and maintenance materials.
IN ATTENDANCE: M. L. Brown, E. B. Messer, R. A. Wade, G. O. Wagoner, J. F. Manning, C. L. Powell, H. W. Anderson.

WESTINGHOUSE AIR BRAKE CO.
WILMERDING, PA.—(264)
See Livingston & Haven

WESTINGHOUSE ELECTRIC CORP.
PITTSBURGH, PA.—(423-424)
EXHIBIT: Adjustable speed drives, electric motors, motor controls and gearing.
IN ATTENDANCE: F. T. Benner.

WESTINGHOUSE LAMP DIV.
CHARLOTTE, N. C.—(406)
EXHIBIT: New shape eye saving lamps, extended service lamps, and Super-Hi fluorescent lamps.
IN ATTENDANCE: H. J. Thomas, J. W. Johnston, J. D. Mitchell, R. D. Thornton, E. M. Douglas, S. V. Taylor.

WEST POINT FOUNDRY & MACHINE CO.
WEST POINT, GA.—(804-806)
EXHIBIT: Their Pacesetter multi-cylinder slasher; Model 594 corduroy cutting machine; Nemo jet cooker; size pump; and drying range and padder.
IN ATTENDANCE: R. L. Mundhenk, R. V. Lee, C. G. Holt, B. B. Brown, Jr., R. C. Monk.

WHEEL TRUEING TOOL CO.
DETROIT, MICH.—(110-B)
See Geo. H. Pennell

WHITIN MACHINE WORKS
WHITINSVILLE, MASS.—(819)
EXHIBIT: Latest types of spinning changeovers and changeover materials to be demonstrated on F2 and F3 Model spinning frames in operation; also various other components used in changeover including spindles, rings, ring holders, hand brakes, bobbin holders and other parts.
IN ATTENDANCE: Service supervisors and engineers from the company's Atlanta and Charlotte regions, also Southern sales personnel and officials from the home office.

WHITINSVILLE SPINNING RING CO.
WHITINSVILLE, MASS.—(209)
EXHIBIT: Complete line of spinning and twister rings and accessories.
IN ATTENDANCE: W. P. Dutemple, G. T. Brown, W. K. Shirley, H. L. Williams.

WILLCOX & GIBBS SEWING MACHINE CO.
NEW YORK, N. Y.—(272)
EXHIBIT: Treufus automatic doffing machine in operation on spinning frame.
IN ATTENDANCE: N. Wonnacott, F. Meeker, E. DuBuis.

WINSMITH, INC.
SPRINGVILLE, N. Y.—(903)
With M. R. Snyder Co.

WOOD'S SONS CO., T. B.
CHAMBERSBURG, PA.—(242B-243)
EXHIBIT: Their individual card drive; motion control drives for spinning frames; their Sure-Flex flexible coupling; also belt drives and other power transmission items.
IN ATTENDANCE: E. M. Bowman, R. C. Reese, C. R. Shank, J. Seawell, Jr., B. W. Parsons.

WRENN BROTHERS
CHARLOTTE, N. C.—(480-481)
EXHIBIT: Materials handling equipment for the textile industry including Hyster lift trucks; Colson casters with thread guards; Colson mobile shop; Sturdi-Bilt storage racks; Union Steel palletaineers for textile use.
IN ATTENDANCE: G. Wrenn, P. Wrenn, R. Ward and others.

YALE & TOWNE MFG. CO., THE
PHILADELPHIA, PA.—(470)
EXHIBIT: Materials handling equipment, such as trucks and hoists.
IN ATTENDANCE: J. H. Brown, N. C. Baker, R. H. Marsh, L. P. Jones, C. R. Dean, L. W. Jander, J. P. Coleman.

YEOMANS TEXTILE MACHINERY CO.
SPARTANBURG, S. C.—(449)
EXHIBIT: 3 models Scharer fully automatic high-speed filling winders for cotton yarns, for wool yarns and for filament yarns; all equipped with pinboard stacking device; a Scharer filling winder for cotton yarns equipped for Draper magazine stacking; a Scharer pineapple cone winder.
IN ATTENDANCE: J. Scharer, M. Jent, O. Zollinger, K. Laager, C. L. Yeomans, C. H. Turner.

YOUNG MACHINE CO., INC., F. A.
GASTONIA, N. C.—(257-258)
EXHIBIT: Their new VY-5 vertical drafting frame; their rebuilt anti-friction changeover NYAF spinning frame; both frames equipped with their new spiral fluted rolls; their new micro-electric precision aligning equipment for all frames.
IN ATTENDANCE: R. K. Wright, J. W. Long, Jr., B. P. Keever, C. J. Webster, J. E. Lindsay, Jr.

ZINSER TEXTILMASCHINEN G. M. B. H.
EBERSBACH FILS, GERMANY—(128)
See Watson & Desmond

Textile Colorists' Philadelphia convention

Dyeing manmade fiber blends to highlight annual meeting

IMPORTANT new developments in dyeing and finishing as well as fibers and blends will be the major theme of the 1960 National Convention of the American Association of Textile Chemists and Colorists, October 6, 7 and 8 at the Sheraton Hotel in Philadelphia.

According to Dr. S. Graeme Turnbull, Jr., chairman of the Technical Program Committee, the technical program schedued for the annual meeting will amplify on the convention theme: "New Fibers—New Blends—New Fabrics".

In the talks and discussions that will make up the program, the emphasis will be on the new, Dr. Turnbull stated. Leading spokesmen of the industry, he said, will deliver talks on the dyeing and finishing of the new fibers and blends, including blends of natural and synthetic fibers. Also to be reviewed during the three day meeting will be new dyeing equipment and processes. The technical program will close on Saturday noon with an address entitled: "The Industry Looks Ahead."

A special feature of the convention this year is the display of dyeing equipment and related products and services. More than 30 companies have taken exhibit space. The Delaware Valley Section of AATCC is the host section for this year's national convention, the 39th in the Association's history. L. Kevin McChesney, Leatex Chemical Co., Philadelphia is chairman of the publicity committee. M. H. Klein, Sandoz, Inc., is chairman of the Exhibits Committee.

The details of the technical program, as made available by the Program Committee, are as follows:

Technical Program

Thursday Morning, October 6

9:00-10:30—Dyeing and Finishing of New Cellulosic Fibers—Dr. Walter J. Hamburger of Fabric Research Laboratories (Moderator) and Panel of Speakers from the Fiber Manufacturers

10:30-11:00—Fabrics from "Creslan" Acrylic Fiber—H. C. Haller—American Cyanamid Co.

11:00-11:30—Continuous Dyeing on the Monforts Reactor in the Synthetic Dyehouse—Fred Fortess—Celanese Corp.

11:30-12:00—Dyeing and Finishing of Man-Made Fibers in a Cotton Finishing Plant—Heyward Simpson—Reeves Bros.

12:00-12:15—Panel Discussion

Thursday Afternoon

12:45- 2:00—Awards Luncheon

2:00- 2:30—Awards and Acceptances

2:30- 3:00—Technical Paper by Arnold M. Sookne, The Olney Medal Award Winner, "Improved Textile Properties from New Chemical Structures"

3:00- 4:00—"Science and Craft in Color"—Dr. Jacques E. Wegmann of Toms River Chemical Corp. on the Ciba Eidophor (closed circuit color television), assisted by Ciba personnel.

Friday Morning, October 7

9:00- 9:30—"Acrilan", "Acrilan" 16 and Their Blends—Walter Stump of Chemstrand Corp.

9:30-10:00—Modern Continuous Dyeing Processes—Dr. Richard Kern—Sandoz

10:00-10:30—"Rovana"—Versatile New Yarn—C. R. Sheehan—Dow

10:30-11:00—Reducing the Felting Shrinkage of Wool—Fred H. Steiger—Rohm & Haas

11:00-11:30—Dyeing and Finishing Blends of Wool and the Man-Made Fibers—J. T. Wilson—Excelsior Mills No. 4

11:30-12:15—Fabric Development from a Practical Dyer's Viewpoint—J. E. Greer—Greensboro Finishing Co.

Friday Afternoon

Intersectional Contest

Saturday Morning, October 8

9:00- 9:30—Dyeing with Vinyl-Sulfon Reactive Dyes—Dr. H. Luttringhaus—Carbic-Hoechst Corp.

9:30-10:00—Status of Non-Woven Fabrics in the Textile Trade—Dr. Howard E. Shearer—American Viscose Corp.

10:00-10:30—New Fibers from Du Pont—M. M. Christie—The Du Pont Co.

10:30-11:00—Recent Developments in the Dyeing of "Verel" Modacrylic Fiber—Robert J. Fortune—Tennessee Eastman Co.

11:00-11:30—New Color Measuring Instrument for Use by the Textile Industry—F. J. Rizzo—Quartermaster Research

11:30- Noon—The Textile Industry Looks Ahead (Prominent Speaker from Government or the Textile Industry)

List of Exhibitors

AMERICAN VISCOSE CORP.
Philadelphia, Pa.—Booths 27-28
EXHIBIT: New fibers and yarns, and end products made with them.

ARNOLD, HOFFMAN & CO., INC.
Providence, R. I.—Booth 6
EXHIBIT: Dyes and finishes for textile industry including end products such as fabrics and garments.

ATLAS ELECTRIC DEVICES CO.
Chicago, Ill.—Booth 42
EXHIBIT: Fade-Ometer, Launder-Ometer, Accelerator, Scorch Tester, Perspiration Tester, Crockmeter, and other products.

BECCO CHEMICAL DIVISION FOOD MACHINERY & CHEMICAL CORP.
Buffalo, N. Y.—Booth 21
EXHIBIT: Hydrogen peroxide bleaching applications.

CARBIC-HOECHST CORP.
New York, N. Y.—Booths 31 & 32
EXHIBIT: Printed and dyed fabrics and other textile products.

CELANESE CORP. OF AMERICA
New York, N. Y.—Booth 11 & 12

CHEMSTRAND CORP.
New York, N. Y.—Booths 33 & 34
EXHIBIT: Dyeing techniques for Acrilan and nylon.

CIBA CO., INC.
Fairlawn, N. J.—Booths 24 & 25

DAILY NEWS RECORD
New York, N. Y.—Booth 1
EXHIBIT: Trade newspaper.

DAVIDSON & HEMMENDINGER
Easton, Pa.—Booth 47
EXHIBIT: Colormatching computers and color difference computers.

DIAMOND CRYSTAL SALT CO.
St. Clair, Mich.—Booth 8
EXHIBIT: Samples of salt products used in dyeing and finishing.

FISHER SCIENTIFIC CO.
King of Prussia, Pa.—Booth 14
EXHIBIT: Bausch & Lomb Spectronic 505 Ratio Recording Spectrophotometer, a selection of Mettler balances and pH equipment.

GASTON COUNTY DYEING MACHINE CORP.
Stanley, N. C.—Booth 35

GOODYEAR TIRE & RUBBER CO. CHEMICAL DIVISION
Akron, Ohio—Booths 16, 17, 18
EXHIBIT: Textile applications for Chemigum, Pliolite & Pliovic lattices.

HOWES PUBLISHING CO. INC.,
New York, N. Y. Booth 5
EXHIBIT: Trade publications.

INTERNATIONAL SALT CO.
Clarks Summit, Pa.——Booth 43
EXHIBIT: Products for dyeing and finishing industry, and Brinomat evap. salt dissolver.

MORNINGSTAR-PAISLEY, INC.
New York, N. Y.—Booth 7
EXHIBIT: Sizings, finishes, fabrics.

MORTON SALT CO.
Chicago, Ill.—Booth 4
EXHIBIT: A display illustrating uses of salt in the textile industry.

PERMACHEM CORP.
New York, N. Y.—Booth 41

PUTNAM CHEMICAL CORP.
Beacon, N. Y.—Booth 19
EXHIBIT: Dyed fabrics and product samples.

RICHMOND OIL, SOAP & CHEMICAL CO.
Philadelphia, Pa.—Booth 22
EXHIBIT: Textile chemical specialties.

REFINED PRODUCTS CORP.
Lyndhurst, N. J.—Booth 26

ROHM & HAAS CO.
Philadelphia, Pa.—Booth 2

SANDOZ, INC.
New York, N. Y.—Booth 15

SCHUYLKILL CHEMICAL CO.
Philadelphia, Pa.——Booth 13
EXHIBIT: Skulite Ammonium Sulfite and Murexide.

TEST FABRICS, INC.
New York, N. Y.—Booth 40

TEXTILE INDUSTRIES
W. R. C. Smith Publishing Co.,
Atlanta, Ga.—Booth 20
EXHIBIT: Trade magazines.

TEXTILE WORLD
New York. N. Y.—Booth 23
EXHIBIT: Trade magazine.

THOMAS CO., ARTHUR H.
Philadelphia, Pa.—Booth 3
EXHIBIT: Laboratory apparatus.

UNION CARBIDE CHEMICALS CO.
New York, N. Y.—Booths 29 & 30
EXHIBIT: Chemicals for the textile industry.

WALLERSTEIN CO.
Staten Island, N. Y.—Booth 9

New Microfiber Process

Licenses to make organic microfibers are being offered by American Viscose Corp., owner of the patented process, developed for it by Arthur D. Little, Inc. The process has been in pilot operation at American Viscose's Marcus Hook plant.

In the new process, organic plastics such as vinyl, acrylic, nylon and polyester resins, as well as amorphous materials such as asphalt are melted or dissolved in volatile solvents and then sprayed into an air stream to form superfine fibers. During the spraying, the microfibers may be mixed with rayon or other fibers and the mixture deposited on a moving belt in random distribution as a web.

The microfibers are unique in having a permanent electric charge, irregular length and diameters of from 0.5 to 10 microns. The Avisco webs are highly absorbent and may be used in sanitary products, sterile absorbent, dentist rolls, inking pads and typewriter ribbons. Uses are foreseen in air conditioning filters, gas masks and filters for autos and trucks. Other possible uses are in nonwoven fabrics, insulation layers for sleeping bags and winter clothing. American Viscose has already licensed the Mine Safety Appliance Corp., which is building a microfiber unit for the production of filters for respiratory and space filtration. *For further information write the editors.*

Hits Research Programs

Dr. Herbert C. Brown, Purdue University chemistry professor, in accepting the first Gold Medal Award for Creative Research in Organic Chemistry criticized the research program of American industry. The award was recently presented by the Synthetic Organic Chemical Manufacturers Association. Brown charged that American chemistry was lacking in research accomplishment. He placed the blame on the pressures put on researchers to proceed to a well-defined objective without achieving any understanding or even knowledge of the chemistry required to obtain the objective.

Mueller Joins Mitchell-Bissell

John P. Mueller has been appointed sales manager of Mitchell-Bissell Co., Trenton, N. J., manufacturers of thread guides, according to a recent announcement by John R. Mitchell, president. With more than 15 years' experience in the ceramics field, Mueller was formerly connected with National Ceramics Co., and Mueller Machine Co.

Sonoco Retires Dunlap

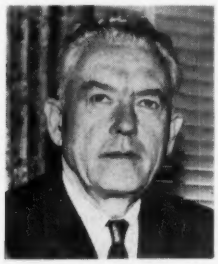
C. K. Dunlap, who retired on April 1 from Sonoco Products Co., was presented with a silver punch bowl by the firm's board of directors at a recent special meeting. Dunlap was associated with Sonoco for 44 years. At the time of his retirement he was a vice president, and considered by many as the "dean of the paper converting industry."

Cotton Cloth Improvement

Two Government research reports on cotton and cotton fabrics are now available. The first, ARS 72-9, "Improvement of Water-Resistant Cotton Fabrics," comprises five papers, covering a wide range of subjects pertaining to water-resistant fabrics, as well as on cotton fabric construction and finishing, and the relationship of fiber and fabric properties.

The second, "Desizing, Scouring and Bleaching Improves Cotton for Outdoor Use," by wet finishing processes, reports on a research program conducted in cooperation with the Canvas Products Association International.

Single copies of the first report may be obtained from the Southern Utilization Research and Development Division, and of the second report from the Southern Regional Research Laboratory, both at P.O. Box 19687, New Orleans 19, La.



J. L. Naylor

Heads Vat Dye Institute

James L. Naylor, manager of the Dyes Department of the Organic Chemicals Division of American Cyanamid Corp., has been elected president of the Vat Dye Institute for 1960-61. He succeeds H. J. Daignault, National Aniline Division, Allied Chemical Corp., who was elected treasurer.

Other officers are: H. C. Spatz, Geigy Dyestuff, division of Geigy Chemical Corp., senior vice president; T. C. Keeling, Koppers Co., Inc., vice president, and E. S. Meyers, Laporte & Meyers, secretary and counsel.

Th. J. McGann

Thomas J. McGann, vice president of James Talcott, Inc., has been named to head the company's Factoring Division, and has been appointed to the firm's executive committee. He succeeds **Joseph A. Amato,** who died recently.

Dr. Howard J. White, Jr. has joined Stanford Research Institute as a senior physical chemist in the Physical and Biological Sciences Research Division.

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Thomas L. Carver has been appointed staff manager for weaver sales of the glass textile section of Johns-Manville.

George Miles has been appointed retail relations manager for Celanese Fibers Co., Celanese Corp. of America.

Werner F. Schulz has been named to the West Coast territory Chemical Specialties Division, Ciba Co., Inc.

Herbert W. DeVitt, Jr., has been appointed general manager of Borg Fabric Division of Amphenol-Borg Limited.

J. Floyd Smith has joined the Chemstrand Corp. as staff director of marketing coordination.

Dr. Edwin L. Lotz has been appointed vice president in charge of research and development of Hess, Goldsmith & Co., Inc.

Edmund L. Lauber has been elected vice president and treasurer of Singer-Fidelity, Inc.

Vernon L. Wilkinson has joined Curtis & Marble Machine Co. He will be in charge of coordinating improvements and modernization of existing machinery as well as planning new product developments for diversification.

D. W. Smith, J. L. Hunter and **W. T. Rankin** have been named sales representatives by American Enka Corp. **R. C. Hunter** has been appointed technical representative of the company.

Russell DeWitte has been elected vice-president of United Piece Dye Works, replacing **Stanley Rosner** who has resigned.

Stephen Dunton and **J. Frank Pratte** have been elected vice presidents of Chicopee Mills, Inc. Dunton will continue in his capacity as manager of the gray goods division and Pratte as sales manager of the general line division.

Jan Heykoop, manager of American Enka Corp.'s Lowland, Tenn., rayon filament plant, retired June 1, after 32 years with the company.

Charles M. Travis has been named vice president in charge of the Industrial Products Division of Hess, Goldsmith & Co. He succeeds **Raymond F. Clark,** who has resigned.

Jesse W. Stribling, sales manager, Leesona Corp., retired May 1.

Dr. Ralph T. K. Cornwell has been named technical assistant to the president of American Viscose Corp.

Why Fuss, Fret or Fiddle Around . . .

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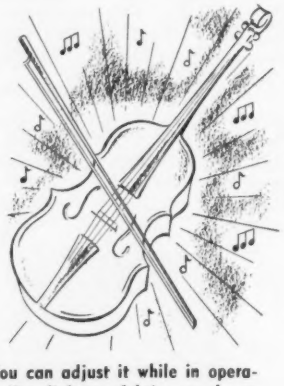

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U. S. MAN-MADE FIBER PRICES

This schedule lists the prices of yarns, staple and tow as reported by the producers in August 1960. All prices are given as subject to change without notice.

CELLULOSIC YARNS

ACETATE

American Viscose Corp.

Current Prices Effective March 22, 1960

Bright and Dull

Denier & Filaments	Intermediate Twist** Cones	Intermediate Twist** Twister T-Tubes	Intermediate Twist** Warps	Spinning Twist Cones & C-Tubes	Spinning Twist Warps
40/11	$	$	$	$	$1.14
45/14	....	....	....	....	1.03
55/14-20	.99	.97	1.00	.93	.87*
75/18	....	....	....	....	.90
75/20	.95	.93	.96	.89	.90
100/28	.91	.89	.92	.85	.86
120/32	.82	.80	.83	.76	.77
150/36	....	....	....	....	.70
150/41	.74	.73	.75	.69	.70
200/54	.70	.69	.71	.66	.67
240/80	....	....	....	.65	.66
300/80	.66	.65	.67	.62	.63

* Tricot Spools Only.
** Standard Twist 2¢ Additional.
Terms: Net 30 Days.

Celanese Fibers Company

Current Prices Effective March 22, 1960

Acetate Filament Yarn Prices

Bright and Dull

Denier and Filaments	Intermediate Twist 4 & 6-Lb. Cones	Intermediate Twist 4 & 6-Lb. Beams	Intermediate Twist 4-Pound Cheeses	Spinning Twist Cones	Spinning Twist Beams	Spinning Twist O Twist Tubes
45/13	$1.12	$1.13	$	$	$1.03*	$ ....
55/15	.99	1.00	....		.87*	.82
75/20	.95	.96	....	.89	.90	.68
75/50	.97	.98	....	....	.92	....
100/26-40	.91	.92	....	.85	.86	....
120/40	.82	.83	....	.76	.77	....
150/40	.74	.75	.74	.69	.70	....
200/52	.70	.71	....	.66	.67	....
240/80	.68	....	....	.64	....	....
300/80	.66	.67	....	.62	.63	....
450/120	.66	.67	....	.62	.63	....
600/160	.65	.66	....	....	....	....
900/80-240	.63	.64	....	....	....	....

* Tricot beams only. This item with Permachem—$.05 additional. 3T/10 electrical finish available at no premium.

3 to 5 turns on Cones or Beams	$.02 Additional
Over 5 turns—55 denier	$.06 Additional per Turn
Over 5 turns—75 denier	$.04 Additional per Turn
Over 5 turns—100 denier	$.03 Additional per Turn
Over 5 turns—150 denier & coarser	$.02 Additional per Turn
150 Denier 12-TM Tubes	$.73
3 Pound Cheeses	$.01 Less than 4-lb. Cheeses
2-BU and 4-BU Tubes	Same price as 4 & 6-lb. cones
Premium for Serving Tubes	$.05
Part Cone Premiums: 2-lbs.	$.05
1-lb.	$.10
Under 1-lb.	$.20

Celaperm Filament Yarn Prices

Denier and Filaments	Intermediate Twist 4 & 6-Lb. Cones	Intermediate Twist 4 & 6-Lb. Beams	Spinning Twist Cones	Spinning Twist Beams
55/15	$1.37	$1.38	$1.31	$1.32
75/20	1.34	1.35	1.28	1.29
100/26	1.28	1.29	1.22	1.23
120/40	1.19	1.20	1.13	1.14
*150/40	1.11	1.12	1.06	1.07
200/104	1.05	1.06	1.01	1.02
300/80	1.01	1.02	.97	.98
450/120	.99	1.00	.95	.96
600/160	.97	.98	....	....
900/240	.94	....	....	....

* 150/2Z/40 available in all colors. Contact our District Sales Representative for current availability of colors in other denier.

Over 5 turns—55 denier	$.06 Additional per Turn
Over 5 turns—75 denier	$.04 Additional per Turn
Over 5 turns—100 denier	$.03 Additional per Turn
Over 5 turns—150 denier & coarser	$.02 Additional per Turn

Celaperm Black Yarn Prices

Effective March 22, 1960

Denier and Filaments	Intermediate Twist 4 & 6-Lb. Cones	Intermediate Twist 4 & 6-Lb. Beams	Spinning Twist Cones	Spinning Twist Beams
55/15	$1.17	$1.18	$1.11	$1.12
75/20	1.14	1.15	1.08	1.09
100/26	1.08	1.09	1.02	1.03
120/40	.99	1.00	.93	.94
150/40	.91	.92	.86	.87
200/52	.85	.86	.81	.82
300/80	.81	.82	.77	.78
450/120	.79	.80	.75	.76
600/160	.77	.78	....	....
900/80	.74	....	....	....

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A.
Prices subject to change without notice.
All previous prices withdrawn.
Note: Prices on unlisted items can be obtained upon request.
Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.
Current Prices

"Acele"* Acetate

Bright & Dull

Denier & Filament	Zero Twist Tubes	Zero Twist Beams	Low Twist Cones	Low Twist Beams	Intermediate Twist 2 & 4 Lb. ⅝" Tbs.	Intermediate Twist 4 & 6 Lb. Tw. Tbs.	Intermediate Twist Cones	Intermediate Twist Bms.
40-13	$1.06	$1.13						
45-13	.94	1.02		$1.11				
55-18	.82	.86		.91***			$.99	$1.00
55-24	.82	.86		.91			.99	1.00
75-24	.86***	.89		.90		$.93	.95	.96
75-50				.92		.95	.97	.98
100-32	.82***	.85		.86		.89	.91	.92
120-50	.73	.76		.77		.81	.82	.83
150-40	.66	.69	$.69	.70	.74	.74	.74	.75
200-60/64	.65		.66	.67	.70	.70	.70	.71
240-80			.65				.69	
300-80	.60	.62	.62	.63	.66	.66	.66	.67
450-120	.61		.62	.63	.66	.66	.66	.67
600-160			.62		.65		.35	.66
900-44					.63		.63	.64
900-240	.61**				.63		.63	.64
1800-88					.61		.61	.62
2700-132					.61		.61	.62
3000-210					.61		.61	.62

(A) Regular Twist (2.9 and 5 T.P.I.)—add $.02 to Intermediate Twist Price.
(B) 1 lb. ⅝" Tubes—add $.02 to 2 & 4 lb. ⅝" Tube Price.
** Bright only 2" Tubes.
*** Tricot only.

Color-Sealed

Denier & Filament	Zero Twist Tubes	Low Twist Beams	Intermediate Twist Twisted Tubes 2 Lb.	Intermediate Twist Twisted Tubes 4 & 6 Lb.	Intermediate Twist Cones	Intermediate Twist Beams
55-18	$1.245	$1.315***	$1.35	$1.35	$1.37	$1.38
75-24	1.18	1.28	1.32	1.32	1.34	1.35
100-32	1.14	1.23	1.26	1.26	1.28	1.29
150-40	1.03	1.06	1.10	1.11	1.11	1.12
200-64			1.04	1.05	1.05	1.06
300-80	.95	.97	1.00	1.01	1.01	1.02

(A) Regular Twist—Add $.02 to Intermediate Twist Price.
*** Tricot only.

Black

Denier & Filament	Zero Twist Tubes	Low Twist Beams	Intermediate Twist 2 & 4 Lb. ⅝" Tbs.	Intermediate Twist 4 & 6 Lb. Tw. Tbs.	Intermediate Twist Cones	Intermediate Twist Beams
40-13	$1.215	$1.285				
55-18	1.045				$1.15	$1.17	$1.18
75-24	.98	1.08		$1.09	1.12	1.14	1.15
100-32	.94			1.03	1.06	1.08	1.09
150-40	.83	.86	.86	.87	.91	.91	.92
200-60					.85	.85	.86
300-80	.75	.77	.77	.78	.81	.81	.81	.82
450-120					.79	.79	.79	.80
600-160					.77	.77	.77	.78
900-240, 44					.74	.74	.74	.75

(A) Regular Twist (2.9 and 5 T.P.I.)—add $.02 to Int. Twist Price.
(B) 1 lb. ⅝" Tubes—add $.02 to 2 & 4 lb. ⅝" Tube Price.

Specialty Yarns

Type 20	Same Price as Regular Yarn
Type C	Same Price as Regular Yarn

Thick & Thin

Denier & Filament	Natural Cones	Natural Beams	Black Cones	Black Beams	Color-Sealed Cones
200-64 Int. Twist	$1.05	$	$1.15	$	$1.35
200-64 Reg. Twist	1.08	1.09	1.17	1.21	....

Terms: Net 30 days. Subject to changes without notice.
Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.
* Dupont's Trademark for its acetate yarn.

Eastman Chemical Products, Inc.

Tennessee Eastman Co.
Current

"Estron"* Yarn, Bright or Dull — White

Denier & Filament	Regular Twist Cones	Regular Twist Beams	Intermediate Twist Cones	Intermediate Twist Beams	Low Twist Cones	Low Twist Beams	Zero Twist Tubes	Tricot Beams Open Twist	Tricot Beams Zero Twist
55/13	$1.01	$1.02	$0.99	$1.00	$0.93	$0.94	$0.82	$0.87	$0.86
75/19	.97	.98	.95	.96	.89	.90	....	.90	....
75/49	.99	1.00	.97	.98			....	....	....
100/25	.93	.94	.91	.92	.85	.86	....	....	....
120/30	.84	.85	.82	.83	.76	.77	....	....	....
150/38	.76	.77	.74	.75	.69	.70	.66	....	....
200/50	.72	.73	.70	.71	.66	.67	....	....	....
300/75	.68	.69	.66	.67	.62	.63	.60	....	....
450/114	.68	.69	.66	.67	.62	.63	....	....	....
600/156	.67	.68	.65	.66	.62	.63	....	....	....
900/230	.65	.66	.63	.64	....	....	.61	....	....
Heavier	....	....	....	....	....	....	.56	....	....

Current

"Chromspun"*—Standard Colors (Except Black)

Denier & Filament	Regular Twist Cones	Regular Twist Beams	Intermediate Twist Cones	Intermediate Twist Beams	Low Twist Cones	Low Twist Beams
55/13	$1.39	$1.40	$1.37	$1.38	$1.31	$1.32
75/19	1.36	1.37	1.34	1.35	1.28	1.29
100/25	1.30	1.31	1.28	1.29	1.22	1.23
150/38	....	....	1.11	1.12	1.06	1.07
300/75	....	....	1.01	1.02	.97	.98
450/114	....	..	.99	1.00	.95	.96
900/230	....	..	.94	.95	..	..

Current Prices

"Chromspun"*—Black

Denier & Filament	Regular Twist Cones	Intermediate Twist Cones	Intermediate Twist Beams	Low Twist Beams
55/13	$1.19	$1.17	$1.18	$1.12
75/19	1.16	1.14	1.15	1.09
100/25	1.10	1.08	1.09	1.03
150/38	.93	.91	.92	.87
200/50	.87	.85	.86	.82
300/75	.83	.81	.82	.78
450/114	.81	.79	.80	.76
900/230	.76	.74	.75	..

Prices are subject to change without notice.
Prices on special items quoted on request.
Terms: Net 30 days. Payment—U. S. A. dollars.
Transportation charges prepaid or allowed to destination in continental United States except Alaska. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.
* "Estron" is a trade-mark of the Eastman Kodak Company.
* Chromspun is a trade-mark of the Eastman Kodak Company.

RAYON

American Bemberg

Current Prices

Regular Production Reel Spun Yarn

Den/Fil	No Turn Skeins	Turned* Skeins & Cones	8½ Turns	High Turn Skeins & Cones 12 Turns	15 Turns	18 Turns
40/30	$1.49	$1.95	....	....	....	$2.08
50/36	1.29	1.55	....	....	....	1.85
65/45	1.22	1.38	....	$1.61	....	1.66
75/60**	1.11	1.25	....	1.48	$1.53	1.56
100/74**	1.02	1.15	....	1.40	1.45	1.51
125/60	1.01	1.12	$1.16	1.37	....	....
150/120	.99	1.08	1.18	1.33	....	....
300/225	....	1.01	....	..	1.14	....
900/744	....	.91	....	....	....	....
1800/744	....	.91	....	....	....	....

* Turn includes twists up to 6 turns on 40 and 50 denier, and up to 5 turns on heavier deniers.
** Spun Dyed Cupracolor Black 15¢ per lb. extra.

"44" HH Spool Spun Yarn

Den/Fil	No Turn Tubes	No Turn Beams	5 Turn Beams	5 Turn Cones	12 Turn Beams	12 Turn Cones	15 Turn Cones
40/30	$1.35	$1.35	....	....	....	....	....
50/36	1.05	1.05	....	....	....	....	....
65/45	1.13	....	....	....	....	$1.50	....
75/45*	1.04	....	$1.15	$1.15	$1.38	1.38	$1.46
100/60*	.96	....	1.10	1.10	1.30	1.30	1.38
125/60	.91	....	1.06	1.06	....	....	....
150/90*	.83	....	.87	.87	1.21	1.21	1.30
150/120	.87	....	....	.99	....	....	....

* Available also in Spun Dyed Cupracolor Black at 15¢ per lb. extra.

"44" HH "Parfe" Spool Spun Yarn

Den/Fil	No Turn Cones	5 Turn Cones	5 Turn Beams	12 Turn Cones	15 Turn Cones
50/36	$1.60	$1.85	$1.85	....	....
75/45	1.48	1.58	1.58	1.78	1.88
100/60	1.38	1.48	1.48	1.68	1.78
150/90	1.21	1.28	1.28	1.63	1.73
300/120	1.21	1.28	....	....	....

Nub-Lite (Short Nubbi)

Code	Den/Fil	2½ Turn Natural Cones	2½ Turn Cones*	5 Turn Natural Cones	5 Turn Cones*
1515	160/90	....	....	$1.50	$1.40
1519**	155/90	....	....	1.50	1.40
2008	200/120	....	....	1.11	1.01
3002	315/180	$1.15	$1.05	....	....
4011	410/224	1.15	1.05	....	....
6001	600/360	1.13	1.03	....	....
8001	860/450	1.13	1.03	....	....

* Basic price for cones when dyed. Dyed Colors 30 and 35 cents above basic price. Prices based on 200 lb. dyed lots only. Prices for natural yarn skeins same as natural cone prices.
** Code 1519 can be run in warp or filling.

CUPIONI Type B

Code	Den/Fil	2½ Turn Cones
9650	70/45	$1.69
9660	100/60	1.53
1545	150/90	1.30
9730	285/135	1.15
9792	450/225	1.15
9814	600/372	1.12
9837	940/372	1.02

"Spun Dyed Cupracolor is spun 150, 285, and 940 deniers at 35¢ per pound extra. Cupracolor Black Comes in all deniers."

STRATA SLUB

Code	Den/Fil	Turned Cones	Price
9747	275/225	3½	$1.25
9798	450/372	2½	1.15
9823	600/372	2½	1.10
9847	960/372	2½	1.02
9885	1290/372	1½	1.00
9934	2680/744	1½	1.00

"Spun Dyed Cupracolor is spun in 600 and 960 deniers at 35¢ per pound extra."

FLAIKONA

Code	Den/Fil	Turned Cones	Price
9699	150/148	2½	$1.35
9769	300/224	2½	1.25
9782	450/270	2½	1.05
9809	600/360	2½	1.05
9840	900/450	2½	1.00
9924	2000/744	2½	.95

"Spun Dyed Cupracolor Black 35¢ per pound extra."
Terms: Net 30 days, F. O. B. shipping point. Minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight allowed to Memphis, Tennessee. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F. O. B. delivery point.
Prices are subject to change without notice.

American Enka Corp.

Current Prices
Effective February 29, 1960
Standard Quality Yarns

NATURAL

Den./Fil.	Luster	Turns		Weaving Cones	Weaving Beams	Skeins Long	Skeins Short	Cakes	Knitting Cones
50/18	E	5	S	....	....	....	....	....	1.63
50/20	B	4	S&Z	....	....	....	....	1.52	1.64
75/10	B	3	S&Z	....	....	....	....	1.02	....
75/18	E	4	S	....	....	....	....	....	1.14
75/30	B	2.5,4	S&Z	1.14	1.14	1.32	1.41	1.02	1.14
75/30	B	8	S	1.24	....	1.49	1.59	1.12	1.24
75/45	P,E	2.5,4,5	S&Z	1.14	1.14	1.32	1.41	1.02	1.14
75/60	B,P	3,4	Z	1.16	....	....	....	1.04	....
100/14	B	3	S&Z	....	....	1.15	1.23	.90	....
100/40	B,E	12	S&Z	....	....	....	....	....	1.29
100/40	B,P,E	4,5	S&Z	....	.98	....	....	.90	.98
100/40	B	6	S	1.17	....	1.34	1.44	1.09	....
100/40	B,P	2.5,4	S&Z	.98	.98	1.15	1.23	.90	....
100/60	B	4	S&Z	....	....	....	....	.90	....
100/60	E	2.5	S	1.00	1.00	....	....	.92	....
125/40	E	3	Z	....	....	....	....	.87	.90
125/50	B,P	3	S	.96	.96	....	....	....	....
150/40	B,E	0		.745	....	....	....	....	....
150/40	B,P,E	2.1,3	S&Z	.82	.82	.96	1.03	.78	.82
150/40	B,E	5	S&Z	.90	.90	1.15	1.25	.86	....
150/40	B,E	8	S&Z	.95	.95	1.20	1.30	.91	....
150/90	E	2.1	S&Z	.83	.83	....	....	.79	....
200/40	B	2.1	S	.81	.81	.94	1.01	.77	....
200/40	P	3	Z	....	....	.94	1.01	.77	.81
250/60	P,E	2.4	Z	....	....	.93	1.00	.77	.80
300/30	E	3	S	.81	.85	....	....	....	....
300/40	B	3.2	Z	.73	.76	....	....	....	....
300/50	B,E	3	S	.73	.76	....	....	....	....
300/60,120	B,P,E	2.1	S&Z	.73	.73	.82	.89	.71	.73
300/60	B	3.5	S	.73	.73	.82	.89	.71	....
300/60	B	6	S	.86	.86	....	1.00	.84	....
300/60	B	8	S	.88	.88	....	....	.86	....
300/120H.T.	B	2.5	S	.75	.75	....	....	.73	....
300/40H.T.	B	3	Z	.85	....	....	....	.83	....
450/60	B	3	S	.69	.71	....	....	.67	....
450/80	B,E	3	S	.69	.71	.78	.85	.67	....
600/80	B,E	3	S	.73	.75	....	....	....	....
600/120	B,E	3	S	.69	.71	.78	.85	.67	....
900/120	B	3.4	S	.69	.71	.78	.85	.67	....
900/120H.T.	B	3.4	S	.71	.71	....	....	.69	....

B = Briglo
P = Periglo (Semi-Dull)
E = Englo (Dull)
H.T. = High Tenacity

Jetspun® (Colored Yarns)

Den./Fil.	Tenacity	Turns	Weaving Cones	Weaving Beams	Colors
100/40	Regular	2.5S	$1.35	$1.35	All
150/40	Regular	2.1S	1.17	1.17	All
200/40	Regular	8.3S	1.28	1.28	All
300/40	Regular	3.4S	1.09	1.09	All
300/120	Regular	2.1S	1.09	1.09	All
450/80	Regular	3.0S	1.05	1.05	All
600/80	Regular	3.4S	1.04	1.04	All
300/40	High	3.4S	1.11	1.11	All
600/80	High	3.4S	1.07	1.07	All
900/120	High	3.4S	1.06	1.06	All

® Registered Trade Mark for American Enka Solution-dyed Rayon Yarn.

Skyloft (Lofted Rayon Filament Yarns) Natural and Jetspun®

Denier	Denier per Filament	Twist	Cones or Tubes Natural	Cones or Tubes Black	Cones or Tubes Other Colors
1000	7.5	3.5S	$.92	$1.17	$1.17
2200	15	3.5S&Z	.67	.77	.84
2700	15	3.5S&Z	.67	.77	.84
4300	15	3.0S&Z	.66	.76	.83
5300	15	3.0S&Z	.65	.75	.82

American Viscose Corp.

Effective October 13, 1959

Graded Yarns

Denier	Filament	Type	Short Skeins	Long Skeins	Cones Tubes	Beams Spools	Cakes
		Regular Turns					
75	10-30	Bright	$1.41	$1.32	$1.14	$1.14	$1.02
75	30	Dull	....	....	1.14	1.14	1.02
100	14-40	Bright	1.23	1.15	.98	.98	.90
100	60	Dull	....	....	1.00	1.00	.92
150	24-40	Bright	1.03	.96	.82	.82	.78
150	40	Semi-Dull	1.03	.96	.82	.82	.78

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150	40	Dull	....	....	.82	.82	.78
150	90	Dull	....	....	.83	....	.79
200	10-44	Bright	1.01	.94	.81	.81	.77
250	60	Semi-Dull & Dull	1.00	.93	.80	.80	.77
300	15	Bright	....	.85	.78	.78	....
300	30	Dull Flat Filament	....	....	....	.85	....
300	44	Bright & Dull	.89	.82	.73	.73	.71
300	234	Dull	....	....	.83	....	.81
450	60-100	Bright	....	.78	.69	.71	.67
600	100	Bright & Dull	....	.78	.69	.71	.67
900	50-100-150	Bright	....	.78	.69	.71	.67
1200	75	Bright	....	.78	.69	.71	....
2700	150	Bright	....	.78	.69	.71	....

Extra Turns Per Inch

150	40	Bright	6-Turns	$1.25	$1.15	$ .90	$ .90	$ .88
200	44	Bright	6-Turns	....	1.05	.96	.96	....
300	15	Bright	5-Turns	....	....	.86	.86	....
300	44	Bright	4.3-Turns	....	....	.81	....	.79
300	44	Bright	6-Turns	.97	.90	.86	.86	.84
300	120	Rayflex	6-Turns	....	....	.93	.93	....
600	30	Bright	5-Turns	....	.86	.82	.82	.80

Rayflex Yarns

150	40-60	Rayflex	$	$	$ .85	$ .85	$ .81
200	75	Rayflex	....	....	.84	.84	.80
300	60-120	Rayflex	....	....	.75	.75	.73
450	120	Rayflex	....	....	.71	.71	.69
600	234	Rayflex	....	....	.71	.71	.69
900	350	Rayflex	....	.80	.71	.71	.69

Thick & Thin Yarns

150	40-90	Bright & Dull	$	$	$1.18	$	$ ....
200	75	Bright & Dull	....	....	1.08	....	....
300	120	Bright & Dull	....	....	.98	....	....
450	100	Bright & Dull	....	....	.92	....	....
490	120	Bright & Dull	....	....	.98	....	....
900	350	Dull	....	....	1.03	....	....
920	120	Bright & Dull	....	....	1.03	....	....

Colorspun Yarns

Denier	Type	Cones/Tubes Beams/Spools
75	Regular Strength	$1.71
100	Regular Strength	1.35
150	Regular Strength	1.17
200	Regular Strength	1.14
300	Regular Strength	1.09
450	Regular Strength	1.05
600	Regular Strength	1.05
900	Regular Strength	1.05
300	High Strength	1.11
450	High Strength	1.06
900	High Strength	1.06
300	Regular Strength 5-Turns	1.19

Avicron Yarns

Avicron Yarns

Denier	Filament		Cones/Tubes Beams/Spools
1800	100-200	Singles & 2 Ply	$.61
2700	150-300-980	Singles & 2 Ply	.58
2700	980	Singles 5 TPI	.61

Viscose Filament Yarns

The following material deposit charges are required:

Metal Section Beams	$170.00 each
Metal Section Beam Racks	75.00 each
Metal Tricot Spools—14" flange	30.00 each
21" flange	60.00 each
32" flange	150.00 each
Metal Tricot Spool Racks—14" flange	135.00 each
21" flange	100.00 each
32" flange	75.00 each
Wooden Tricot Spool Crates	20.00 each
Cloth Cake Covers	.05 each

Same to be credited upon return in good condition—freight collect.

Celanese Fibers Company

Effective June 24, 1959

Viscose Rayon Filament Yarn Prices—Bright and Dull

Denier/Fil/Twist		Beams	Cones	Cakes
75/30/3			1.10	.98
100/40/2Z		.97		
100/40/3			.96	.88
100/40/5			1.02	
100/60/2Z	NS		.96	
100/60/3			.98	.90
125/40/2Z		.93		
125/40/3			.94	.85
150/40/0	NS		.74½	
150/40/2Z		.81		
150/40/3			.79½	.76
150/40/5			.90	.86
150/40/8			.95	.91
150/90/0	NS		.77½	
250/60/0	NS		.74	
250/60/3			.80	.77
300/50/0	NS		.70	
300/50/2Z		.72		
300/50/3			.70½	.69
450/120/0	NS		.67	

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U. S. A.

Prices subject to change without notice.

All previous prices withdrawn.

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices

Effective with orders June 24, 1959

Bright and Dull

Den.	Fil.	Turns/ Inch Up to		Beams	Cones (A) Tubes	Cakes
40	20	3	Textile "Cordura"*		$1.97	$1.92
50	20	3	Textile "Cordura"		1.72	1.67
50	35	3	Textile "Cordura"		1.77	
75	10	3	Bright			1.02
75	30	3		$1.14	1.14	1.02
100	40	3	Bright	.98	.98	.90
100	60	3	Dull		1.00	.92
125	50	3		.96	.96	.87
150	40	3		.82	.82	.78
150	60	3	Bright	.82	.82	.78
150	60	3	Textile "Cordura"		.875	.845
150	90	3	Dull		.83	
150	100	3	Dull		.83	
300	50	2.5		.73	.73	.71
300	120	3	Textile "Cordura"	.74	.74	.72
450	72	3		.71	.69	.67
600	96	3	Bright	.71	.69	.67
600	240	3	Textile "Cordura"	.72	.70	
900	50	3	Bright	.71	.69	.67
900	144	3	Bright	.71	.69	.67
1165	480	3	Textile "Cordura"	.72	.70	.68
1800	100	3	Bright		.69	
2700	150	3	Bright	.71	.69	

Thick and Thin

100	40	3	#7 Bright		1.42	
150	90	3	#7 Bright		1.08	
200	80	3	#7 Bright		1.08	
450	100	3	#7 Bright		.92	
1100	240	3	#60 Bright		1.03	
2200	480	3	#60 Bright		.98	

Monofils

300	1	3	Bright	1.15	1.10	
600	1	3	Bright		1.00	

Plush

300	30	3	Dull	.85	.81	

(A) 2¢/lb. additional for cones less than 3#.

Terms: Net 30 days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

* "CORDURA" and "SUPER CORDURA" are Du Pont's registered trade-marks for its high tenacity rayon yarn.

Industrial Rayon Corp.

Effective June 29, 1959

Continuous Process Textile Yarns

Denier	Filament	Turns per In.	Type	Beams	2.8# Cones	4.4# Cones and Tubes
150	40	2.5"S"	Bright	.82	.82	
200	20	2.5"S"	Bright	.81	.81	
300	44	2.5"S"	Bright	.73	.73	
450	60	2.0"S"	Bright	.69		.69
600	90	1.5"S"	Bright	.69		.69
900	50	2.0"S"	Bright	.69		.69
900	150	2.0"S"	Bright	.69		.69
1100	480	2.0"Z"	Bright extra strong	.66		.66

Lustre #4 is semi-dull.

Prices are subject to change without notice.

Strawn Monofilament

Denier	Filament	Turns per In.	Type	4.4# Cones	Spools and Tubes
450	1	0	Bright and Dull	1.00	1.05
450	1	2	Bright and Dull	1.00	1.05
1250	1	0	Bright and Dull	1.00	1.05
1250	1	2	Bright and Dull	1.00	1.05

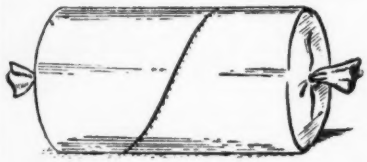
Terms: Net 30 days f.o.b. point of shipment; title to pass to buyer on delivery of goods to carrier. Domestic transportation charges prepaid with transportation allowed at lowest published rate to all points in continental United States except Alaska.

Prices are subject to change without notice.

North American Rayon Corp.

Current Prices

Denier/Filament Normal Strength Yarns — NARCO	Twist	Knitting* Cones	No Twist Knitting Cones	Weaving Cones, Velvet Cones, Beams, Tubes**	Untreated Cakes
75/30	3.5			1.14	1.02
75/30	7			1.27	
75/30	12			1.35	
75/30	15			1.37	
75/30	20			1.40	
100/40/60	3.5			.98	.90
100/40	12			1.22	
125/25/60	3			.96	.87



A NEW BURLAP TUBING

FIT-RITE BELTEX

Sewn on the bias giving two-way stretch. Saves labor saving material for packing all products & no waste. Fits over product like a sleeve and securely wired at each side.

Used in textile mills, carpet mills, rubber mills and many others. Bias-sewn burlap tubing is specified for packaging many government shipments. No steel strapping or sewing needed. A neater job in half the time.

Samples and prices on request.

See us at the Greenville show—
Booth No. 325

BURLAP TUBING

Manufacturers Incorporated

2719 North Edgemont St. REgent 9-4907
PHILADELPHIA 34, PENNSYLVANIA

GUIDES of ALL TYPES

We carry in stock, for immediate delivery, over one thousand different styles of thread guides, for all types of yarns. For knitting, braiding, spinning, weaving, winding, throwing, warping, narrow fabrics, creels and stop motion machinery. A few styles are shown here.
We are sure we have items that you need. Will you please check. Send your samples or prints. Overnight delivery can be made. If you have a wear problem. Call us. We will try to help.

NO. 945

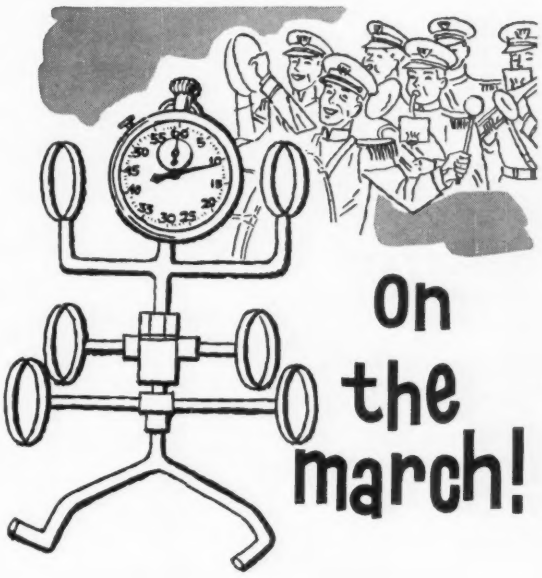
NO. 953

NO. 833

We welcome an opportunity to serve you. Write today for samples, quotations and catalog.

MADDEN'S TEXTILE CERAMICS, INC.

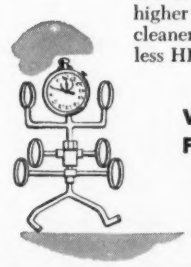
INCORPORATED 1954
P. O. BOX 85 ROCKVILLE CENTRE, L. I. N. Y.
ROCKVILLE CENTRE 4-0336
JESSE F. MADDEN
Formerly of
PAGE MADDEN CO.



On the march!

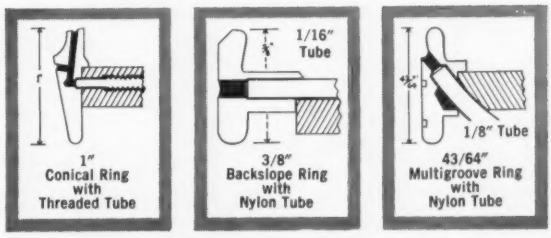
Rings equipped for Centralized Lubrication

There's an accelerating swing . . . to lubrication systems that have demonstrated their ability to deliver as fine as .00010 oz. of lubricant per "shot" per ring . . . with precise timing of pressure pulses. From mills running worsted, wool, carpet yarns, tire cords, glass yarns, come reports of: higher speeds, more uniform tension, cleaner work, longer traveler life . . . and less HP consumed.



WE MAKE RINGS FOR ALL SYSTEMS

- ★ Alemite
- ★ Bijur
- ★ Lincoln



1" Conical Ring with Threaded Tube

3/8" Backslope Ring with Nylon Tube

43/64" Multigroove Ring with Nylon Tube

See DIAMOND FINISH Automatic Lubricated Rings at Greenville, Booth 209

WHITINSVILLE (MASS.) SPINNING RING CO.

DIAMOND FINISH

Makers of Spinning and Twister Rings since 1873

Rep. for the Carolinas & Va.: W. K. SHIRLEY, P.O. Box 406, Belmont, N. C.
Rep. for Ala., Ga. & Tenn.: H. L. WILLIAMS, Box 222, West Point, Ga.

150/42	0		.74½		
150/42/60	3	.80½		.82	.78
300/75	0		.71		
300/75	3	.73		.73	.71
900/46	2.5	.69		.69	
1800/92	2.5	.69		.69	

* Oiled Cones $.01 per pound extra for Graded Yarns only.
** 1 lb. Tubes $.02 per pound extra for Graded Yarns only.

Terms: Net 30 days, F.O.B. shipping point, minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight to Memphis, Tennessee allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F.O.B. delivery point.

Prices subject to change without notice.

TRIACETATE

Celanese Fibers Company

Current Prices

Arnel Yarn Prices
Bright & Dull

Effective August 19, 1958

Denier and Filaments	Cones	Beams	Thick and Thin Cones
55/WKZ/15	$	$1.16	$ ....
55/2Z/15	1.32	1.33	....
75/WKZ/20		1.16	....
75/2Z/20	1.21	1.22	....
100/2Z/26	1.14	1.15	....
150/2Z/40	.95	.96	....
200/2Z/40			....
200/2Z/52	.92	.93	1.25
300/2Z/80	.87	.88	1.23
450/2Z/120	.86	.87	....
600/2Z/160	.85	.86	1.21

3 to 5 Turns on Cones or Beams—$.02 Additional
Premium for Black Arnel—$.25 Per Pound
Premium for Navy Arnel—$.37 Per Pound

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

CELLULOSIC HIGH TENACITY YARN and FABRIC

American Enka Corp.

Effective August 8, 1960

Industrial Yarn Prices

Prices Subject To Change Without Notice

	Denier/Filament	Standard
YARNS & FABRIC FOR TIRES		
TYREX	1100/720	.57
	1650/1100	.50
	2200/1440	.49
	3300/2160	.49
TYREX FABRIC	1100/720	.69
	1650/1100	.59
	2200/1440	.58
YARNS FOR MECHANICAL GOODS		
SUPRENKA M—		
High Elongation	1230/720	.57
	1600/1100	.52
	1800/1100	.50
	1870/1100	.50
	2200/1440	.49
	2400/1440	.49
	3300/2160	.49
Low Elongation	1100/720	.57
	1650/1100	.50
	2200/1440	.49
	3300/2160	.49
TEMPRA—		
High Elongation	1230/480	.56
	1230/480 (5.5Z)	.60
	1820/720	.49
	2400/960	.48
Low Elongation	1100/480	.56
	1130/480 (5.0Z)	.60
	1650/720	.49
	2200/960	.48
TEMPRA—SEWING YARN	1230/480	.60
(Also available in Red at 5c premium)	1750/720	.50
	1820/720	.49
HIGH TENACITY	300/120	.75
	900/120	.71
REGULAR TENACITY	100/40	.98

Terms: New 30 days, f.o.b. Enka, N. C., or Lowland Tenn.; minimum freight allowed to first destination east of the Mississippi River.

American Viscose Corp.

Effective Dec. 23, 1959

Tyrex*
Tyrex* Viscose Tire Yarn

Denier	Filament	Twist	Beams	Cones
1100	980	0	.57	.57
1100	980	Z	.57	....
1650	1500	0	.50	.50
1650	1500	Z	.50	....

Tire Fabric Made with Tyrex* Viscose Tire Yarn and Cord

Denier	Filament	Carcass	Top Ply	Breaker
1100	980/2	.69	.69	.69
		Factor Open-525	300-490	115-275
1650	1500/2	.59	.60	.625

Factor determined by dividing total ends by picks.

* Tyrex is a collective trade-mark of Tyrex Inc. for Viscose Tire Yarn and Cord.

Rayon Tire Yarn
Yarn

Denier	Filament	Twist	High Strength (Unslashed)	High Strength	Super "Rayflex" 210-310	Super "Rayflex" 120-220-320
1100	490	0-Z	....	.56	....	....
1100	980	0-Z	....	....	....	.57
1150	490	Z	.56	....	....	....
1230	490	Z	.56	....	....	....
1650	980	Z	.49	.49	.49	....
1650	980	0	....	.49	....	....
1650	1500	Z	....	....	....	.50
1650	1500	0	....	....	....	.50
1875	980	Z	.49	....	.49	.50
2200	980	0	....	.48	....	....
2200	1500	0	....	....	....	.49
3300	3000	0	....	....	....	.49
4400	3000	0	....	....	....	.49

High Strength available on cones—tubes—beams.

High Strength and Super "Rayflex"

0 Twist—available on 10# cones—beams—10# tubes.
Z Twist—available on beams.

Avisco Bag Twine

Sold by The American Thread Company

1100/980 Super "Rayflex"	0-Z	Cones	.62
1500/980 Super "Rayflex"	0-Z	Cones	.59
1780/980 Super "Rayflex"	0-Z	Cones	.55

Also available in red at .07 premium.

Chafer Yarn

1100/490 High Strength	5Z	Twist	.60

All yarns sold "Not Guaranteed for Dyeing".

Tire Fabric

Denier	Filament	Type	Carcass	Top Ply	Breaker
1100	980	Super 120-220-320	.69	.69	.69
			Factor* Open-525	300-490	115-275
1650	980	Super 110-210-310	.58	.59	.615
1650	1500	Super 120-220-320	.59	.60	.625

* Factor determined by dividing total ends by picks.

Cord on cones in regular Tire Yarn twists same as fabric prices.

Other twist combinations—prices quoted on request.

When supplied, yarns and cords in special packages take premiums indicated.

10.5 oz Wardwell Tubes	.10
1.5 lb Regular Braider Tubes	.06
3.5 lb Tubes	.045

The following deposit charges are made on invoices:

Beams	$55.00 each
Crates (Metal)	75.00 each
Fabric Shell Rolls	3.50 each

Same to be credited upon return in good condition—freight collect.

Rayon Tire Yarn and Fabric

Terms: Net 30 days. Seller to select and to pay transportation charges of common and contract carrier except when shipment moves West of the Mississippi River, in which event the actual cost of transportation to the Mississippi River crossing based on the lowest published freight rate, shall be allowed. Title to pass when merchandise is delivered to consignee. Transportation allowance based on lowest published volume rate shall be granted if merchandise is transported from shipping point in vehicle owned or leased and operated by buyer and title to pass when merchandise is delivered to same.

Price subject to change without notice.

Celanese Fibers Company

Effective December 27, 1955

Fortisan Yarn Prices

Denier	Packages	Natural	Black
30/2.5/40	2 lb. Cones	$3.00 lb.	$3.35 lb.
60/2.5/80	4 " "	2.40 "	2.75 "
90/2.5/120	4 " "	2.25 "	2.60 "
120/2.5/160	4 " "	2.05 "	2.40 "
150/2.5/180	4 " "	1.95 "	2.30 "
270/2.5/360	4 " "	1.85 "	2.20 "
300/2.5/360	4 " "	1.85 "	2.20 "

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A.

Prices subject to change without notice.

All previous prices withdrawn.

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

Fortisan-36 Rayon Yarn
Bright

Denier and Filament	Twist	4# cones	8# cones	Tubes	Beams
270/280	0.8Z	$2.30			
300/280	0.8Z	$2.05			
300/280	3Z	$2.20			
400/400	0.8Z	$1.75			$1.70
400/400	0			$1.75	
800/800	0.8Z	$1.25	$1.25		$1.20
800/800	3Z	$1.40			
800/800	0			$1.25	
1600/1600	0.8Z	$1.15	$1.15		$1.10
1600/1600	2½Z	$1.30			
1600/1600	0			$1.15	

Terms: Net 30 days. Shipments prepaid to any destination in U.S.A.

Prices subject to change without notice.

All previous prices withdrawn.

Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices
Effective May 29, 1960

"Super Cordura"*

Den Fil	Turns/in	All Packages
1100-720	2	.57
1200-720	2	.57
1530-960	2	.57
1600-960	2	.52
1650-1100	2	.50
1800-1100	2	.50
2200-1440	2	.49
2400-1440	2	.49

Terms: Net 30 Days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

• "CORDURA" and "SUPER CORDURA" are DuPont's registered trade-marks for its high tenacity rayon yarn.

Industrial Rayon Corporation

Effective July 29, 1960

Unbleached Bright High Tenacity Yarns

Single End Beams and Cones—Type 100

Denier	Filament	Turns per Inch	Beams	Cones
1100	480	2.0 "Z"	.56	.56
1150	480	2.0 "Z"	.56	.56
1650	720	2.0 "Z"	.49	.49
1725	720	2.0 "Z"	.49	.49
2200	1000	2.0 "Z"	.48	.48
3300	1440	2.0 "Z"	.48	.48
4400	2000	2.0 "Z"	.48	.48

Tyrex

Tyrex Certified Viscose Tire Yarn

Denier	Filament	Twist	Beams	Cones
1100	720	Z	.57	.545
1650	1100	Z	.50	.475

Terms: Net 30 days f.o.b. point of shipment, title to pass to buyer on delivery of goods to carrier. Domestic transportation charges allowed at lowest published rate to all points in continental United States except Alaska.

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

North American Rayon Corporation

Effective December 23, 1959

Super Super High Strength Continuous Yarn Type 710		Cones	Beams
1100/720	1.6Z	.545	.545
1650/720	2.0Z	.475	.475
Tire Cord Fabrics			
Super Super High Strength Type 710			**Rolls**
1100/720			.665
1650/720			.565

Terms: Net 30 days, f.o.b. shipping point. Minimum freight allowed to consignee's nearest freight station East of the Mississippi River. To points West of the Mississippi River minimum freight to Memphis, Tenn. allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold f.o.b. delivery point.

Prices are subject to change without notice.

CELLULOSIC STAPLE & TOW ACETATE

Celanese Fibers Company

Effective March 2, 1959

Staple

(Most Deniers Available in Bright or Dull Luster)

Celanese Acetate Staple	
3, 5.5 & 8 Denier (Regular Crimp, Type HC, Type D)	$.36
2, 12 & 17 Denier (Regular Crimp, Type HC, Type D)	.37
35 Denier	.38
50 Denier	.40
Type F—5.5 & 8 Denier	.35
Type F—12 & 17 Denier	.36
Type K—(Available under Celanese License Agreement)	.39
⅝" to ⅞" length (All Deniers)	.03 (Premium)
35 Denier Flat Filament Acetate	.40
Non-Textile Acetate Fibers	.29•

Tow (Celatow)

3, 5.5 & 8 Denier	$.37
2, 12 & 17 Denier	.38
35 Denier	.40
35 Denier Flat Filament Acetate Tow	.42
50 Denier	.42

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. east of Mississippi River. Transportation prepaid to any U.S.A. destination west of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

• No transportation allowed (F.O.B. shipping point.)

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

RAYON

American Viscose Corp. Current Prices

Rayon Staple

	Bright and Dull
Regular	$ .28
"Viscose 22"	.28
1.25 Denier	.31
All Other Deniers	.28
Hi-Crimp	.28
Bleached Crimp	
1.5, 3.0 Denier	.315
Smooth	
8.0 15.0 22.0 Denier	.32
Bleached	.33
Extra Strength	
0.75 Denier	.40
1.0 Denier	.35
XL	
1.0 Denier	.40
1.5, 3.0 Denier	.37
XLI	.34
Fiber 40	
1.0 Denier	.43
1.5 Denier	.40

Colorspun Black Staple

1.5, 3.0, 5.5 Denier	.37
15.0 Denier crimped	.40

Prices of other colors on request.

Tow

1.5, 3.0, 5.5 Denier	.35
9.0 Denier	.37
15.0, 20.0 Denier	.38
Color spun black tow	.42

Terms: Net 30 days.

American Enka Corp.

Current Prices Effective 7/1/59

Rayon Staple

Regular Crimp

	Brt.	Dull
1.5 and 3 denier	$ .33	$ .33

High Crimp

4.5 denier	.34	....
6.5 denier	.34	.34
8 denier	.35	....
15 denier	.35	.35

Celanese Fibers Company

Effective May 1, 1959

Rayon Tow

	Bright & Dull
1.5, 3, 5.5 D.P.F. Total denier 200,000	.35
8 D.P.F. Total denier 207,000	.37

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. East of Mississippi River. Transportation prepaid to any U.S.A. destination West of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our Acknowledgments of Orders.

Courtaulds (Alabama) Inc.

Effective April 14, 1959

Rayon Staple

	Bright	Dull
1½ and 3 denier	$.33	$.33

Available in 1⅛", 1-9/16" and 2".

Crimped Rayon Staple

3 and 5½ denier	$.34	$.34

Available in 1-9/16" and 3".

3 denier	.34

Available in 2".

Coloray® Solution Dyed Rayon Staple

Color	Price per lb.
Black	39¢
Silver Grey	41¢
Mocha	41¢
Tan	41¢
Medium Brown	41¢
Aqua	42¢
Rose	42¢
Dawn Pink	42¢
Ecru	42¢
Dark Brown	42¢
Gold	45¢
Slate Grey	45¢
Sulphur	46¢
Nugget	46¢
Light Blue	46¢
Crystal Blue	47¢
Apple Green	47¢
Sage	47¢
Peacock Blue	48¢
Medium Blue	50¢
Indian Yellow	51¢
Dark Blue	51¢
Hunter Green	51¢
Turquoise	52¢
Malachite Green	53¢
Red	58¢

In addition to the above, Black is also available in:

1½ den. 1⅛"	5½ den. 3"
3 den. 1⅛"	5½ den. 6"
3 den. 1-9/16"	

Terms: Net 30 days f.o.b. LeMoyne, Alabama: Minimum transportation allowed to points in U.S.A. east of Mississippi River.

Corval® Cross Linked Rayon

Effective April 14, 1959

Man-made, cross-linked, cellulosic staple,
Bright and Dull, 1½, 3 and 5½ denier..... $.40 per lb.

Topel® Cross-Linked Rayon

Man-made, cross-linked, cellulosic staple,
Bright and Dull, 1½, 3 and 5½ denier..... $.37 per lb.

Terms: Net 30 days f.o.b. LeMoyne, Alabama; Minimum transportation allowed to points in U.S.A. east of Mississippi River.

The Hartford Fibres Co.

Div. Bigelow-Sanford Carpet Co., Inc.

Rayon Staple

Effective November 3, 1958

REGULAR

1.5 denier Bright
1 9/16", 2" ..... .33

VISCALON 66 (Crimped)

8 denier 3" Bright ..... .35
15 denier 3" Bright ..... .35
15 denier 3" Dull ..... .35

"KOLORBON"—Solution Dyed Rayon Staple—3" and 6"

	8 Denier Bright	15 Denier Dull	15 Denier Bright
Cloud Grey	.46	.46	....
Sandalwood	.46	.46	....
Nutria	.46	.46	....
Sea Green	.46	.46	....
Mint Green	.46	.46	....
Champagne	.46	.46	....
Midnight Black	.46	....	.46
Gold	.49	.49	....
Turquoise	.46	.46	....
Melon	.49	.49	....
Capri Blue	.46	.46	....
Charcoal Grey	.46	.46	....
Coco	.47	.47	....
Sable	.48	....	.48
Tangerine	.66	....	.66
Chinese Red	.66	....	.66
Larkspur Blue	.46	.46	....
Royal Blue	.66	....	.66
Lemon Peel	.55	.55	....
Kelly Green	*.52	.52	....
Bitter Green	.66	....	.66

Terms: Net 30 days. Prices are quoted f.o.b. shipping point, lowest cost of transportation allowed, or prepaid. To points West of the Mississippi, lowest cost of transportation allowed to the Mississippi River crossing.

"Zantrel" Polynosic Rayon

Effective August 14, 1959

Man-made, polynosic, cellulosic staple.

Semi-Bright, 1 denier, 1 9/16"	$.50 per lb.
1½ denier, 1¼" and 1 9/16"	.47 per lb.
3 denier, 1 9/16" and 2"	.47 per lb.

Terms: Net 30 days. Prices are quoted f.o.b. shipping point, lowest cost of transportation allowed, or prepaid. To points West of the Mississippi, lowest cost of transportation allowed to the Mississippi River crossing.

North American Rayon Corporation

Current Prices Effective Dec. 23, 1959

Rayon Staple

Super High Tenacity	Bright
No. 1 (Unshrunk)	
1, 1.5 & 3 deniers	.40
No. 2 (Preshrunk)	
1, 1.5 & 3 deniers	.40

Rayon Tow

High Tenacity	
2200 denier, 1.0 and 1.5 D/F	57.5
4400 denier, 1.0 and 1.5 D/F	47.5

Prices are subject to change without notice.

TRIACETATE

Celanese Fibers Company

Current Prices Effective June 7, 1957

(Most Deniers Available in Bright or Dull Luster)

Arnel Staple and Tow

Arnel Triacetate Staple	Bright & Dull
2.5 Individual Denier	$.55
5.0 Individual Denier	.55
Arnel Triacetate Tow	
2.5 Individual Denier 114,000 Total Denier	$.60
5.0 Individual Denier 90,000 Total Denier or 180,000 Total Denier	.60

Packaged on Ball Warps

Terms: Net 30 days. Transportation prepaid or allowed to any destination in U.S.A. east of Mississippi River. Transportation prepaid to any U.S.A. destination west of Mississippi River, but charge is made for the portion of transportation from river crossing nearest customer's location.

Prices subject to change without notice.

All previous prices withdrawn.

Note: Prices on unlisted items can be obtained upon request.

Orders are subject to conditions of sale appearing on our acknowledgments of orders.

NON CELLULOSIC YARN

NYLON

Allied Chemical Corporation

Caprolan®

Current Yarn Prices: Effective May 1, 1960

Denier	Filament	Turn/In.	Twist	Type**	Package	1st Grade Price/Lb.
140	16	1½	Z	B	Cones*	$1.60
140	16	1½	Z	B	Beams	1.65
200	16	1½	Z	B	Cones*	1.49
200	16	1½	Z	B	Beams	1.54
200	32	¾	Z	B	Bobbins	1.49
200	32	¾	Z	B	Beams	1.54
210	32	1	Z	HB	Bobbins	1.49
260	16	1	Z	HB	Bobbins	1.49
420	64	½	Z	HBT	Bobbins	1.39
420	64	½	Z	HBT	Beams	1.44
520	32	1	Z	B	Bobbins	1.39
520	32	1	Z	B	Beams	1.44
840	136	½	Z	HBT	Al. Tubes	0.94
840	136	½	Z	HBT	Beams	0.92
1680	272	½	Z	HBT	Al. Tubes	0.92
1680	272	½	Z	HBT	Beams	0.92
1050	16	½	O	HB	Al. Tubes	1.15
2100	112	½	Z	HB	Al. Tubes	1.11
4200	224	0	O	HB	Paper Tubes*	1.10
2100	408	0	O	HB	Paper Tubes*	0.97
2500	408	0	O	HB	Paper Tubes*	0.97
3360	544	0	O	HB	Paper Tubes*	0.96
4200	680	0	O	HB	Paper Tubes*	0.96
5000	816	0	O	HB	Paper Tubes*	0.96
5800	952	0	O	HB	Paper Tubes*	0.96
7500	1224	0	O	HB	Paper Tubes*	0.95
10000	1632	0	O	HB	Paper Tubes*	0.95
15000	2448	0	O	HB	Paper Tubes*	0.95

Terms—Net 30 days.

Price subject to change without notice.

Bobbins are invoiced at 45¢ ea.

Aluminum Tubes are invoiced at 40¢ ea.

Beams are invoiced at $220.00.

Cradles for beams are invoiced at $53.00.

B—Bright
H—High Tenacity
T—Heat Stabilized

* Paper Tubes and Cones non-returnable, no charge.

** Type is used to describe luster and tenacity.

All prices quoted F.O.B. Shipping Point.

Minimum transportation charges allowed and prepaid in Continental United States, excluding Alaska.

American Enka Corporation

Enka Nylon Yarn Prices

Effective July 1, 1960

Den./Fil.	Luster*	Twist	Package	Price Per Pound Standard	Price Per Pound Sub-Standard
15/1	SD or D	0.5 Z	Tricot Spools	4.00	....
15/1	SD or D	0.5 Z	Pirns-2 lb.	3.89	3.69
20/1	SD	0.5 Z	Pirns-1 lb.	4.03	3.68
20/6	D	0.5 Z	Pirns-2 lb.	2.96	2.61
20/6	D	0.5 Z	Tricot Spools	3.07	....
30/6	SD	0.5 Z	Pirns-2 lb.	2.36	2.21
40/8	SD	0.5 Z	Pirns-2 lb.	2.01	1.91
40/8	SD-IC	0.5 Z	Tricot Spools	2.11	....
40/8	SD-B de B	0.5 Z	Pirns-2 lb.	2.10	2.00
40/13	D	0.5 Z	Pirns-2 lb.	2.06	1.96
40/13	D	0.5 Z	Tricot Spools	2.16	....
50/13	SD	0.5 Z	Pirns-2 lb.	1.91	1.76
50/13	SD-B de B	0.5 Z	Pirns-2 lb.	2.00	1.85
70/32	B-SD	0.5 Z	Pirns-2 lb.	1.71	1.66
70/32	SD-B de B	0.5 Z	Pirns-2 lb.	1.80	1.75
100/32	SD-B de B	0.5 Z	Pirns-2 lb.	1.74	1.69
100/32	SD	0.5 Z	Pirns-2 lb.	1.65	1.60
140/64-32	B-SD	0.5 Z	Pirns-2 lb.	1.60	1.55
140/64-32	B-SD	0.5 Z	Tricot Spools	1.70	....
140/32-64	SD-B de B	0.5 Z	Pirns-2 lb.	1.69	1.64
200/16-34	B	0.6 Z	Cones-4 lb.	1.49	1.44
200/16-34	B	0.6 Z	Beams	1.54	....
200/32	SD-B de B	0.5 Z	Cones-4 lb.	1.58	1.53
260/16-34	B	0.6 Z	Cones-4 lb.	1.49	1.39
400/68	B	0.6 Z	Cones-4 lb.	1.39	1.29
520/32	B	0.6 Z	Cones-4 lb.	1.39	1.29

*Luster: B—Bright; SD—Semi-Dull; D—Dull; *SD-B de B.

Pirns invoiced at 25¢ or 45¢ each, depending on type. Deposits refunded upon return of pirns in good condition. Cones are not returnable. Spools, Beams and Racks are deposit carriers and remain the property of American Enka Corporation.

Terms: Net 30 days from date of invoice. Minimum common carrier transportation charges will be prepaid and absorbed to first destination in the continental limits of the United States excluding Alaska and Hawaii. In prepaying transportation charges, seller reserves the right to select carrier used.

All prices subject to change without notice.

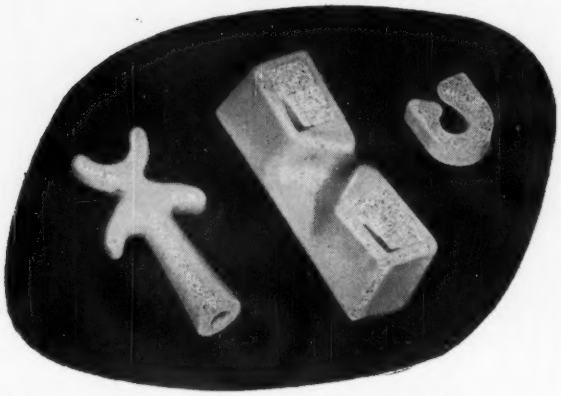
*B de B—Blanc de Blancs®—White of Whites Color.

The Chemstrand Corp.

Current Prices Effective August 11, 1960

Denier	Filament	Twist	Type	Package	Standard Price/Lb.	Second Price/Lb.
10	1	O	SD	Bobbins	$7.16	$6.56
15	1	O	SD	Bobbins	3.89	3.69
15	1	O	SD	Spools	4.00	....
15	1	O	Dull	Bobbins	3.89	3.69
15	1	O	Dull	Spools	4.00	....
20	7	Z	SD	Bobbins	2.91	2.61
20	7	Z	SD	Spools	3.02	....
30	10	Z	SD	Bobbins	2.36	2.21
30	26	Z	SD	Bobbins	2.49	2.21
40	10	Z	SD	Bobbins	2.01	1.91
40	13	Z	SD	Bobbins	2.01	1.91
40	13	Z	SD	Spools	2.11	....
40	13	Z	SD	Warp Wind	2.01	1.91
40	13	O	SD	Draw Wind	2.01	1.91
40	13	Z	Dull	Bobbins	2.06	1.96
40	13	Z	Dull	Spools	2.16	....
40	13	O	Dull	Draw Wind	2.06	1.96
50	17	Z	SD	Bobbins	1.91	1.76
50	17	O	SD	Draw Wind	1.91	1.76

Those who say they can't
are usually right about it.



We who are responsible for the high quality of

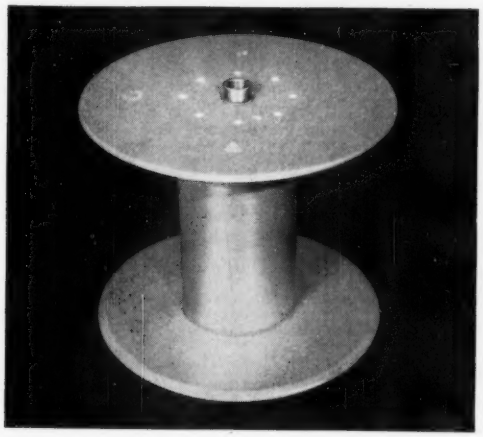
LAMBERTVILLE THREAD GUIDES

never allow ourselves the luxury of believing that our product cannot be improved. Continual research in ceramic manufacturing techniques has made today's Lambertville porcelain guides the smoothest, hardest and most durable on the market. Available in white or "Durablu" Finish.

Lambertville Ceramic
AND MANUFACTURING COMPANY
LAMBERTVILLE, NEW JERSEY

LAMBERTVILLE: YOUR GUIDE TO BETTER OPERATIONS!

NO YARN TRAPPING WITH
BRAZED ALUMINUM TWO POUND TAKE-UP BOBBIN



New aluminum take-up bobbin with barrel and heads brazed together into a single unit prevents yarn trapping. Exceptional strength at price no higher than ordinary bobbins.

Write us today for full details.

BW MACK **ALLENTOWN BOBBIN WORKS, INC.**
ALLENTOWN **PENNSYLVANIA**

let's talk about...

LAURAVEL SC CONCENTRATED

Here's a new, *improved* Laurel nonionic softener ideally suited for the finishing of all types of yarns and fabrics. It is a soft paste, readily dispersible in hot water. It is highly resistant to aging and will not alter shades, nor yellow whites.

LAURAVEL SC CONCENTRATED is highly resistant to salts, acids and alkalis, as well as many chemicals, such as chromium salts carried over from previous boxes in continuous finishing ranges. You'll find this quality Laurel product more compatible with other finishing agents, such as resins and dextrins, than many of its anionic counterparts.

Fabrics finished with LAURAVEL SC CONCENTRATED show excellent resistance to scorching. This provides added insurance against overdrying.

You'll like the full bodied softness that LAURAVEL SC CONCENTRATED imparts to fabrics and its excellent lubrication which improves sewing and cutting properties. It is also useful as a replacement for many conventional oils and softeners used in compressive shrinking processes, giving a hand which is not limp and raggy. Generous, free trial samples of LAURAVEL SC CONCENTRATED are available. Why not write today?

Laurel Brand — OVER 50 YEARS OF SERVICE TO INDUSTRY

Laurel
SOAP MANUFACTURING CO., INC.
TIOGA, THOMPSON & ALMOND STS. • PHILA. 34, PA.

Warehouses: Paterson, N.J. Chattanooga, Tenn. Charlotte, N.C. Greenville, S.C.

50	17	Z	Brt.	Warp Wind	1.91	1.76
70	20	Z	SD	Bobbins	1.71	1.66
70	34	Z	SD	Bobbins	1.71	1.66
70	34	O	SD	Draw Wind	1.71	1.66
70	34	Z	SD	Warp Wind	1.71	1.66
70	34	Z	Brt.	Bobbins	1.71	1.66
70	34	O	Brt.	Draw Wind	1.71	1.66
70	34	Z	Brt.	Warp Wind	1.71	1.66
70	34	Z	HB	Bobbins	1.76	1.66
70	34	O	HB	Draw Wind	1.76	1.66
90	26	Z	SD	Bobbins	1.76	1.66
100	26	Z	SD	Bobbins	1.65	1.60
100	34	Z	SD	Bobbins	1.65	1.60
100	34	Z	HB	Bobbins	1.70	1.60
140	68	Z	SD	Bobbins	1.60	1.55
140	68	Z	Brt.	Bobbins	1.60	1.55
200	34	Z	Brt.	Bobbins	1.49	1.44
200	34	O	Brt.	Draw Wind	1.49	1.44
200	34	Z	Brt.	Spools	1.54	....
200	68	Z	SD	Bobbins	1.56	1.46
210	34	Z	HB	Bobbins	1.49	1.44
210	34	O	HB	Draw Wind	1.49	1.44
210	34	Z	HB	Warp Wind	1.49	1.44
210	34	Z	HB	Spools	1.54	....
210	34	Z	HB	Beams	1.54	....
210	34	Z	RHB	Bobbins	1.59	1.44
260	17	Z	HB	Bobbins	1.49	1.39
260	17	Z	HB	Beams	1.54	....
420	68	Z	HB	Bobbins	1.39	1.29
520	34	Z	HB	Bobbins	1.39	1.29
720	140	Z	RHB	Tubes	1.04	1.01
720	140	Z	RHB	Beams	1.04	1.01
780	51	Z	HB	Tubes	1.39	1.29
840	140	Z	HB	Tubes	.94	.92
840	140	Z	HB	Beams	.92	....
840	140	Z	RHB	Tubes	.94	.92
840	140	Z	RHB	Beams	.92	....
840	140	Z	HB	Paper Tubes	.96	....
840	140	Z	RHB	Paper Tubes	.96	....
1040	68	Z	SD	Tubes	1.15	1.05
1680	280	Z	HB	Beams	.94	.91
1680	280	Z	RHB	Tubes	.92	.90
1680	280	Z	RHB	Beams	.92	....
1680	280	Z	RHB	Cones	.95	.91

• *Types:* D—Dull; SD—Semi-dull; B—Bright; H—High tenacity.

Bobbins are invoiced at 25¢ or 45¢, depending on type; tubes are invoiced at 40¢ each; spools invoiced at $95.00, $110.00, and $115.00, depending on type; and beams and crates for beams are invoiced at $220.00 and $25.00 respectively.

Prices subject to changes without notice.

Freight prepaid within Continental United States and Puerto Rico.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

Current Prices

Nylon Yarn

Denier & Filament	Turns/Inch & Twist	Type	Package	1st Grade	2nd Grade
7-1	0	200	Bobbin	$8.05	$7.40
10-1	0	200	Bobbin	7.16	6.56
12-1	0	200	Bobbin	6.35	5.85
15-1	0	200	Beam	4.00	....
15-1	0	200/280	Bobbin	3.89	3.69
15-1	0	680	Beam	4.00	....
15-1	0	680	Bobbin	3.89	3.69
20-1	0	200/280	Bobbin	4.03	3.68
14-2	0.2Z	200	Bobbin	6.72	6.12
17-2	0.2Z	200	Bobbin	5.96	5.41
20-2	0.2Z	200	Bobbin	4.71	4.27
15-3	0.2Z	200	Bobbin	5.19	4.69
21-3	0.2Z	200	Bobbin	4.70	4.27
20-7	0.5Z	200	Bobbin	2.91	2.61
20-7	0.5Z	200	Beam	3.02	....
20-7	0.5Z	680	Bobbin	2.96	2.61
20-7	0.5Z	680	Beam	3.07	....
20-20	0.7Z	209	Bobbin	6.00	....
28-4	0.2Z	200	Bobbin	2.81	2.61
30-10	0.5Z	200	Bobbin	2.36	2.21
30-10	0.5Z	200	Tricot Bms	2.46	....
30-10	0.5Z	300	Bobbin	2.51	2.36
30-10	0.5Z	680	Bobbin	2.41	2.21
30-10	0.5Z	680	Tricot Bms.	2.51	....
30-26	0.5Z	200/280	Bobbin	2.49	2.21
30-26	0.5Z	200/280	Tricot Beams	2.59	....
40-1	0	100	Bobbin	4.03	3.75
40-7	0.5Z	200	Bobbin	2.11	1.91
40-10	0.5Z	200	Bobbin	2.01	1.91
40-10	0.5Z	200	Tricot Beams	2.11	....
40-10	0.5Z	280	Bobbin	2.01	1.91
40-13	0.5Z	200	Bobbin	2.01	1.91
40-13	0.5Z	200	Tricot Bms.	2.11	....
40-13	0.5Z	400	Bobbin	2.13	1.90
40-13	0.5Z	680	Bobbin	2.06	1.96
40-13	0.5Z	680	Tricot Bms.	2.16	....
40-34	0.5Z	200	Bobbin	2.21	1.81
50-10	0.5Z	200	Bobbins	2.11	1.76
50-17	0.5Z	100/200	Bobbin	1.91	1.76
50-17	0	200	Tubes	1.91	1.76
50-17	0.5Z	680	Bobbin	2.01	1.76
60-34	0.5Z	300	Bobbin	1.86	1.76
60-20	0.5Z	200/280/288	Bobbin	1.82	1.65
70-17	0.5Z	200/280	Bobbin	1.71	1.66
70-34	0	100	Tubes	1.71	1.66
70-34	0.5Z	100/200	Bobbin	1.71	1.66
70-34	0	105/205	Paper Tube	1.71	1.66
70-34	0	200	Tubes	1.71	1.66
70-34	0.5Z	280	Bobbin	1.71	1.66
70-34	0.5Z	288	Bobbin	1.71	1.66
70-34	0.5Z	300	Bobbin	1.76	1.66
70-34	0.5Z	680	Bobbin	1.76	1.66
70-34	0	680	Tubes	1.76	1.66
80-26	0.5Z	200	Bobbin	1.71	1.60
90-26	0.5Z	200	Bobbin	1.76	1.66
90-26	0.5Z	288	Bobbin	1.76	1.66
100-34	0.5Z	200/288	Bobbin	1.65	1.60
100-34	0.5Z	300	Bobbin	1.70	1.60
100-34	0	300	Tubes	1.70	1.60
100-34	0.5Z	680	Bobbin	1.70	1.60
100-50	0.5Z	200	Bobbin	1.71	1.60
110-50	0.5Z	200	Bobbin	1.71	1.60
140-68	0.5Z	100	Bobbins	1.60	1.55
140-68	0	200	Tubes	1.60	1.55
140-68	0.5Z	200	Bobbin	1.60	1.55
140-68	0	205	Tube	1.60	1.55
140-68	0.5Z	288	Bobbin	1.60	1.55
140-68	0.5Z	300	Bobbin	1.65	1.55
200-20	1Z	100	Bobbin	1.49	1.44
200-34	0	100	Tubes	1.49	1.44
200-34	0.7Z	100	Bobbin	1.49	1.44
200-34	0	105	Tube	1.49	1.44
200-34	0.7Z	680	Bobbin	1.54	1.44
200-68	0.7Z	100/200	Bobbin	1.56	1.46
210-34	0	300	Tubes	1.49	1.44
210-34	0.7Z	300	Bobbin	1.49	1.44
210-34	0.7Z	300	Beam	1.54	....
210-34	0	305	Tube	1.49	1.44
210-34	0.7Z	330	Bobbin	1.59	1.44
260-17	1Z	300	Bobbin	1.49	1.39
400-68	0.7Z	100	Bobbin	1.39	1.29
420-68	1Z	300	Bobbin	1.39	1.29
420-68	1Z	300	Beams	1.44	....
520-34	1Z	300	Bobbin	1.39	1.29
630-102	0.7Z	300	Bobbin	1.39	1.29
780-51	1Z	300	Bobbin	1.39	1.29
800-140	0.5Z	100	Bobbin	1.39	1.29
840-140	0.5Z	300/700	Al. Tbs.	.94	.92
840-140	0.5Z	300/700	Beams	.92	....
1680-280	0.5Z	300/700	Al. Tbs.	.94	.92
1680-280	0.5Z	300/700	Beams	.92	....

Color-Sealed Yarn

Denier & Filament	Turns/Inch & Twist	Type	Package	1st Grade	2nd Grade
30-10	0.5Z	140	Bobbin	$2.71	$2.56
40-13	0.5Z	140	Bobbin	2.36	2.16
70-34	0.5Z	140	Bobbin	2.06	2.01
100-34	0.5Z	140	Bobbin	2.00	1.95
100-34	0	140	Tubes	2.00	1.95
200-20	0.7Z	140	Bobbin	1.84	1.79
200-34	0.7Z	140	Bobbin	1.84	1.79
260-17	1Z	140	Bobbin	1.84	1.79
260-20	1Z	140	Bobbin	1.84	1.79

Industrial Yarn				Price/Lb.
840-140	0.5Z	•707	Cone	.95
5040-840	0	•707	Paper Tube	.99
7560-1260	0	•707	Paper Tube	.98
10080-1680	0	•707	Paper Tube	.98
15120-2520	0	•707	Paper Tube	.98

• Made specifically for cordage use.

840/140	0.5Z	....	Raschel Beams	1.00
2520-420	0	700	Paper Tube	.97
4200-700	0	700	Paper Tube	.96
5040-840	0	700	Paper Tube	.96
7560-1260	0	700	Paper Tube	.95
10080-1680	0	700	Paper Tube	.95
15120-2520	0	700	Paper Tube	.95

These prices are subject to change without notice. Terms: Net 30 Days.

Types

Type 100—Bright, normal tenacity.
Type 105—Bright, normal tenacity, low shrinkage (5-7%)
Type 140—Bright, color-sealed, black, normal tenacity.
Type 200—Semidull, normal tenacity.
Type 205—Semidull, normal tenacity, low shrinkage (5-7%)
Type 209—Semidull, normal tenacity, improved light durability and dye light fastness.
Type 280—Semidull, normal tenacity, improved light durability and dye light fastness.
Type 288—Semidull, normal tenacity, for Texturing.
Type 300—Bright, high tenacity.
Type 305—Bright, high tenacity, low shrinkage (5-7%)
Type 330—Bright, high tenacity, more heat & light resistant.
Type 400—Semidull, high tenacity.
Type 680—Dull, normal tenacity.
Type 700—Bright, high tenacity.
Type 707—Bright, high tenacity cordage yarn.

Freight Terms—Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

Following are invoiced as a separate item.
Bobbins—25 cents or 45 cents depending on type
Aluminum Tube—40¢ each
Draw Winder Tubes—$.70 or $1.00 depending on type
Tire Cord Beams—$220.00 each
Cradles for Tire Cord Beams—$115.00 each
Tricot Beams—$95.00 each
Cradles for Tricot Beams—$130.00 each
(Beams and Cradles are deposit carriers and remain the property of E. I. du Pont de Nemours & Co., Inc.)

POLYESTER

E. I. du Pont de Nemours & Co.

Textile Fibers Dept.

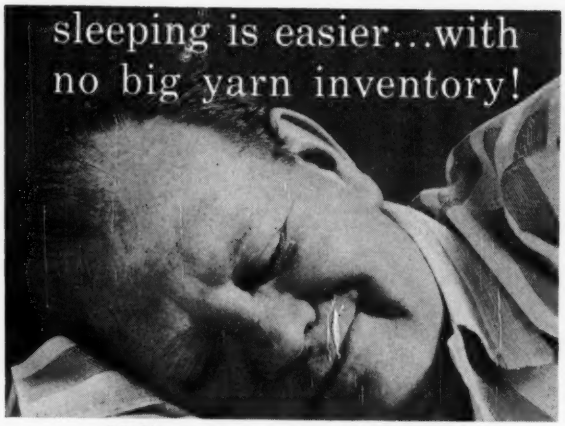
Current Prices

"Dacron"*

Denier & Filament	Turns/Inch	Luster	Type*	Tubes 1st Gr.
30-14	0	Bright	55	$2.71
30-20	0	Semidull	56	2.71
40-27	0	Semidull	56	2.31
40-27	0	Bright	55	2.31
40-27	0	Dull	57	2.36
70-34	0	Semidull	56	1.91
70-14	0	Bright	55	1.91
70-34	0	Bright	55	1.91
70-34	0	Dull	57	1.96
100-34	0	Semidull	56	1.84
140-28	0	Bright	55	1.79
150-34	0	Semidull	56	1.79
220-50	0	Bright	51	1.76
250-50	0	Bright	55	1.76
1100-250	0	Bright	51	1.50
1100-250	0	Bright	52	1.50

Terms: Net 30 days.

Domestic Freight Terms are F.O.B. shipping point, freight prepaid our route within the Continental limits of the U. S., excluding Alaska.



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To Receive AATCC Awards

Recipients of two awards to be presented by the American Association of Textile Chemists and Colorists at a luncheon on Friday, October 7, during the AATCC national convention in Philadelphia, Pa., have been announced.

Leonard S. Little, a textile consultant, will receive the 1960 Harold C. Chapin Award. It is presented annually to a senior member of at least 20 years continuous membership, who has contributed outstanding service in enabling the association to attain the objectives for which it was founded.

Arnold M. Sookne, associate director of Harris Research Laboratories, Inc., will be awarded the 1960 Olney Medal. It is presented annually for outstanding achievement in the field of textile chemistry, including the development of chemical agents or chemical processes used in the manufacture of textiles.

GATT Protests Voiced

Leading textile industry spokesmen have voiced criticism of the inclusion of certain textile products on the list of items on which the United States may grant concessions during tariff negotiations under the General Agreement on Tariffs and Trade (GATT).

James A. Chapman, president of the American Cotton Manufacturers Institute, said U. S. textile imports are increasing constantly at "a fantastic rate under present tariff levels. They certainly need no additional spur."

Hugh G. Chatham, blanket group director of the National Association of Wool Manufacturers, said inclusion of wool bed blankets, knit items and other textiles on the U. S. bargaining list for possible tariff concessions "constitutes government harassment of the American industry.

Textile Machinery Exports

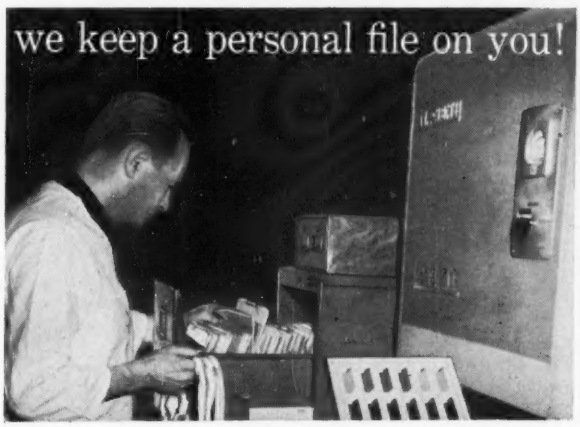
Representatives of U.S. textile machinery manufacturers at a recent meeting in Washington with officials of the Commerce Department outlined the problems they encounter in selling goods to foreign users. They also described the steps it is felt the Federal Government could take to aid them in expanding this export market, which now approximates $75 million annually. Spokesmen for the industry said their foreign trade approximates 25% of their total production by value, but that the volume is only 25 to 50% of that 10 years ago, while in that same period their employment has declined 30%.

The price differential between goods produced in this and other countries because of labor and other costs were described by some industry representatives as the crux of their export problems.

New South Carolina Nylon Plant

A new plant for the manufacture of fine denier Caprolan nylon filament yarn will be erected at Irmo, S. C., about ten miles from Columbia, S. C. by Allied Chemical Corp. To be operated by Allied's National Aniline Division, the plant will be completed late in 1961 and will increase Allied nylon capacity to more than 80 million pounds a year.

Snia Viscosa, Italian producer of manmade fibers, will furnish Allied Chemical with technical assistance and certain manufacturing equipment for the Irmo plant. The fine denier Caprolan nylon to be produced at the new plant is expected to find a market in apparel, home furnishings and other textile applications.



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Rayon Corporation

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PLANT: 86 CRARY ST., PROVIDENCE, R. I.

Yarn Types

* Type:
Type 51—Bright, high tenacity.
Type 52—Bright, high tenacity.
Type 55—Bright, normal tenacity.
Type 56—Semidull, normal tenacity.
Type 57—Dull, normal tenacity.

Tubes are invoiced as a separate item at $.70 each.

* "DACRON" is DuPont's registered trade-mark for its polyester fiber.

SARAN

The National Plastics Products Company—Fibers Division

Odenton, Maryland

Current Prices:

CONTINUOUS FILAMENT

Type	Twist p. i.	Natural	Colors
1240/10	3	$1.32	$1.37
750/20*	3	1.75	1.80

* For filter fabrics and other industrial purposes only.

F.O.B. Odenton, Maryland.

Terms: Net 30 days.

NON CELLULOSIC STAPLE & TOW

ACRYLIC

American Cyanamid Co.

Fibers Division

Effective Date: November 24, 1959

Cyanamid Acrylic Staple

	1st Grade Price (per pound)
2.0 Denier Bright and Semi-Dull	$1.28
3.0 Denier Bright and Semi-Dull	1.18
5.0 Denier Bright and Semi-Dull	1.18
15.0 Denier Bright, Semi-Dull and Dull	.93

Staple Lengths: 1½", 2" 2½", 3", 3½", 4", 4½".

Information provided on request for Deniers, Lengths and Lusters not listed above.

Prices are subject to change without notice.

Terms: Net 30 Days.

F.O.B. Shipping Point—Minimum transportation allowed (Seller's route and method) within the continental limits of the United States excluding Alaska. If Buyer requests and Seller agrees to a route or method involving higher than minimum rate, Buyer shall pay the excess transportation cost.

Note: CRESLAN® is Cyanamid's registered trademark for certain of its acrylic fibers. Use of this trademark is authorized only on properly constructed fabrics, after they have been tested and approved by Cyanamid.

The Chemstrand Corp.

Current Prices

"Acrilan"*

Effective July 1, 1960

	Acrilan	Acrilan 16
1.0 denier Semi-Dull and Bright staple		$1.28
2.0 denier Semi-Dull and Bright staple & tow	$1.18	1.18
2.5 denier Hi-Bulk Bright and Semi-dull staple and tow	1.18	1.18
3.0 denier Bright & Semi-dull staple & tow	1.18	1.18
5.0 denier Bright & Semi-dull staple & tow	1.18	1.18
8.0 denier Bright & Semi-dull staple & tow	1.18	1.18
15.0 denier Bright & Semi-dull staple & tow	.93	.97
2.5 denier Bright & Semi-dull staple —dope dyed (black)		1.48
3.0 denier Bright & Semi-dull staple & tow dope dyed (black)		1.48

Terms: Net 30 days. Freight prepaid within Continental U. S. & Puerto Rico.

* "Acrilan" is Chemstrand's registered trademark for its acrylic fiber.

The Dow Chemical Company

Textile Fibers Department Current Prices

"Zefran"* Acrylic Staple

2.0 denier Semidull & Bright—Staple only	$1.28
3.0 denier Semidull & Bright—Staple only	1.28
6.0 denier Semidull & Bright—Staple only	1.18
100% Blends of ZEFRAN acrylic fiber (For the Woolen System)	
Type W-2 (average denier of about 2.5)	$.99
Type W-4 (average denier of about 4.5)	.94

Terms: Net 30 days.

Transportation Terms: F.O.B. shipping point—Freight prepaid our route within the continental limits of the U. S., excluding Alaska.

* Registered trademark of The Dow Chemical Co.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices

"Orlon"* Acrylic Staple & Tow

Type 42	Staple Length	Tow Blds.	1st Grade
1.0 Denier Semidull	1¼, 1½, 2, 2½, 3	420M	$1.28
2.0 Denier Semidull & Bright	1¼, 1½, 2, 2½, 3, 4½	470M	1.28
3.0 Denier Semidull & Bright	1¼, 1½, 2, 2½, 3, 4½	470M	1.28
3.0 Denier Color-sealed Black	1¼, 1½, 2, 2½, 3, 4½	470M	1.63
6.0 Denier Semidull & Bright	1½, 2, 2½, 3, 4½	470M	1.18
6.0 Denier Color-sealed Black	1½, 2, 2½, 3, 4½	470M	1.55
4.5 Denier Semidull	1½, 2, 2½, 3, 4½	470M	1.18
10.0 Denier Semidull & Bright	1½, 2, 2½, 3, 4½	470M	1.18
10.0 Denier Color-sealed Black	1½, 2, 2½, 3, 4½	470M	1.55

High Shrinkage Staple price as Regular Staple

Type 25 $1.08

This product is designed for *Cotton/Rayon System* Spinning and is 2.5 denier, 1½" semidull regular shrinkage staple.

Type 39 $.94

This product is designed for *woolen system spinning* and is a blend of deniers (average 4.2) with a variable cut length.

Type 39A $.99

This product is designed for *woolen system spinning* and is a blend of predominately fine deniers (average 2.4) with a variable cut length.

Type 39B $.94

This product is designed for *woolen system spinning* and is a blend of predominately heavy deniers (average 6.5) with a variable cut length.

"ORLON SAYELLE"**

3.0 denier semidull variable 2½" to 5" average 3¾" staple	$1.53
6.0 denier semidull variable 2½" to 5" average 3¾" staple	1.50

F.O.B. Shipping Point—Freight prepaid our route within the continental limits of the United States, excluding Alaska.

* "ORLON" is Dupont's Registered Trade-mark of its Acrylic Fiber.

"ORLON SAYELLE"** is Dupont's Trade-mark for its bi-component Acrylic fiber.

MODACRYLIC

Eastman Chemical Products, Inc.

Tennessee Eastman Co.

Current

"Verel"* Staple and Tow

Deniers	Dull and Bright
2 and 3	$1.02 per pound
5, 8, and 12	.92
16 and 20	.88
24 denier	.93

Prices are subject to change without notice.

Terms: Net 30 days. Payment—U. S. A. dollars.

Transportation charges prepaid or allowed to destination in continental United States, except Alaska. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.

* "Verel" is a trade-mark of the Eastman Kodak Co.

Union Carbide Chemicals Co.

Div. Union Carbide Corp

Textile Fibers Dept. Effective May 1, 1959

Dynel Staple & Tow

Natural Dynel	
3, 6, and 12 Denier, Staple and Tow	1.10 per lb.
24 Denier, Staple and Tow	1.05 per lb.
Dynel Spun with Light Colors:	
Blond, Pewter, and Gray	
3 and 6 Denier, Staple and Tow	1.30 per lb.
Dynel Spun with Dark Colors:	
Black, Charcoal, Brown, Caramel, Green, and Blue	
3 and 6 Denier, Staple and Tow	1.40 per lb.
Dynel Type 63 High Shrinkage (3 Denier only)	Add $.05 per lb. to above prices

Prices are quoted F.O.B. shipping point, freight prepaid our route, within continental limits United States, excluding Alaska and Hawaii.

NYLON

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices

Nylon Staple and Tow

Denier	Type	Staple Lengths	Tow Bundle	1st. Grade Price/Lb.	2nd Grade Staple Only
1.5	200	1½"—4½"	None made	$1.33	$1.18
1.5	201	1½"—4½"	None made	1.35	1.20
2.3	420	1½" only	None made	1.28	1.13
3.0	100/200	1½"—4½"	430M	1.28	1.13
3.0	101/201	1½"—4½"	455M	1.30	1.15
6.0	100	1½"—6½"	330M	1.28	1.13
6.0	101	1½"—6½"	345M	1.30	1.15
15.0	100	1½"—6½"	425M	1.08	....
15.0	101	1½"—6½"	None made	1.10	....
15.0	600	1½"—6½"	425M	1.10	....
15.0	601	1½"—6½"	None made	1.12	....

Staple lengths are restricted to the range shown opposite each denier above. The actual cut lengths within these ranges are as follows:

1½, 1½, 2, 2½, 3, 4½ and 6½

Types

Type 100 Bright, normal tenacity, not heatset.
Type 101 Bright, normal tenacity, heatset.
Type 200 Semidull, normal tenacity, not heatset.
Type 201 Semidull, normal tenacity, heatset
Type 420 Semidull, high tenacity, high modulus, no crimp.
Type 600 Dull normal tenacity, not heatset.
Type 601 Dull normal tenacity, heatset.

These prices are subject to changes without notice.

Terms—Net 30 Days.

Freight Terms—Terms are F.O.B. shipping point, freight prepaid our route within the continental limits of the United States, excluding Alaska.

Industrial Rayon Corp.

Effective August 18, 1958

Nylon Staple

1.5 denier	$1.33 per lb.
2, 3 and 6 denier	1.28 per lb.
8 denier	1.15 per lb.
15 and 22 denier	1.08 per lb.

Bright, semi-dull, and full-dull. Required lengths.

NYTRIL

Celanese Fibers Company

DARVAN

Effective Nov. 21, 1958

Type	Price Per Pound Net Crimp Set	Crimp Set
3, 4½ and 6 Denier	$1.45	$1.50
1½, 2 Denier	$1.50	$1.55

Nolan Helms

(Continued from Page 22)

lon yarns permit the production of a tight, springy, richly textured carpet with the luxurious appearance found in the past only in far more expensive woven carpets. He likes the Caprolan carpet, too, for its extreme receptivity to brilliant dyes. In fact, his recognition of this quality in the Caprolan yarn has enabled Croft to establish its unique place as a house of brilliantly colored floor coverings.

For the future, Nolan Helms sees nothing but continued growth for tufted floor coverings along with steady improvement in this construction in terms of varied styling and textures. The battle fought by tufted floor coverings to win acceptance as a thoroughly reliable construction taking its place alongside, and to a great extent, it must be admitted, replacing woven constructions, has long been won.

With few exceptions, all the established old-line woven carpet mills now have tufted fabrics in their showrooms and tufting machines running in their plants. It was not always that way, as every carpet man knows. Helms himself remembers when, a few years back, he spent six harried months shuttling back and forth almost daily between Chattanooga and New York trying to persuade one of the biggest and oldest weavers of axminsters to let Croft make for it a line of tufted fabrics. The protracted negotiations came to nothing because the axminster weaver, now faded from the floor covering scene by way of merger with another mill, could not see its way clear to adding those newfangled tufted carpets to its line. For this old-line carpet weaver, tufted carpets were a surprise it simply could not bring itself to accept.

If for carpet manufacturers, including tufters like Croft, future technical innovations and future changes in consumers' preferences bring surprises—and who can doubt that such surprises will occur—Croft Carpet Mills, under Nolan Helms' youthful and open-minded leadership, can be depended upon to latch on to such surprises and turn them into profitable business.

100% Verel Carpeting

The fall 1960 line of Roxbury Carpet Co. will be paced by three new styles of carpeting of 100% Verel, the Eastman modacrylic fiber. Advantageous properties of Verel in floor covering fabrics, according to Roxbury, are its good appearance after long usage, good cleanability, texture retention, affinity for color and resistance to abrasive wear. *For further information write the editors.*

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The only good thing about static is that the Simco "Midget" now unconditionally guarantees to eliminate it! This safe, rugged, inexpensive static eliminator is designed to fit any machine, is effective on any material. Write today for complete facts. Anti-static cleaning devices and sheet separators, anti-static sprays and static measuring meters are also available.

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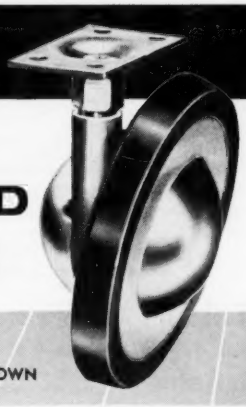

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SHEPHERD CASTERS CANADA LTD., 76 CROCKFORD BLVD., TORONTO

Pack in 100 Lb. Bales, Net
Staple lengths 1½, 2, 3, 4½
Tow—90,000 Total Denier
Bright, Semi-dull, Dull

(Deniers and lengths of staple not listed above are available upon special request.)

Terms: Net 30 Days.

F.O.B. Shipping Point (Avon Lake, Ohio) Minimum freight prepaid our route to points east of the Mississippi River within the continental limits of the United States, for points west of the Mississippi River freight allowed to the Mississippi River crossing nearest purchaser's mill if overland, or port of exit of purchaser's choice east of the Mississippi River.

POLYESTER

Beaunit Mills Inc.

Vycron Polyester

Current Prices

	Denier	Price Per Lb.
	1.5	$1.26
	3.0	1.36
Staple Cuts are 1⅛", 1½", 2", 3" and 4"		
Tow for Converters	1.5	1.26
(Tow Bundle 200,000 Denier)	3.0	1.36

Spun Dyed Black 10¢ per lb. extra.

Terms: Net 30 days, F.O.B. shipping point. Minimum freight allowed to consignee's nearest freight station east of the Mississippi River. To points west of the Mississippi River minimum freight to Memphis, Tenn. allowed. Goods after shipment shall be at buyer's risk. Merchandise transported in seller's own trucks or those of its affiliates is sold F.O.B. delivery point. Prices subject to change without further notice.

E. I. du Pont de Nemours & Co.

Textile Fibers Dept. Current Prices

"Dacron"** Staple and Tow

Denier	Luster	Type*	Length	Tow Bundle	1st Gr.
1.5	Semidull	54	1¼"-1½"	None made	1.26
1.5	Semidull	64	Tow only	550M	1.41
2.25	Semidull	64	1¼"-4½"	450M	1.41
3.0	Semidull	54	1¼"-4½"	450M	1.36
3.0	Semidull	61	1¼"-4½"	None made	1.36
3.0	Semidull	64	1¼"-4½"	450M	1.41
4.5	Semidull	54	1¼"-4½"	450M	1.31
4.5	Semidull	64	1¼"-4½"	450M	1.36
6.0	Semidull	54	1¼"-4½"	450M	1.31
6.0	Semidull	61	1¼"-4½"	None made	1.31
6.0	Semidull	64	1¼"-4½"	450M	1.36

* Type:
Type 54—Semidull, Normal Tenacity.
Type 61—Industrial Staple having 45% Shrinkage. Not intended for Dyeable Uses.
Type 64—More Pill Resistant Staple, with Greater Dyeing Versatility.

"Dacron" Polyester Color-Sealed Black Staple and Tow

2.25	Color Sealed Black	64	1¼"-4½"	450M	1.76
3.0	Color Sealed Black	64	1¼"-4½"	450M	1.76

F. O. B. Shipping Point—Freight prepaid our route within the continental limits of the United States, excluding Alaska.

** Dupont's Registered Trade-mark for its Polyester Fiber.

Eastman Chemical Products, Inc.

Tennessee Eastman Co. Current

"Kodel"*

Deniers	Semi-Dull Staple	Semi-Dull Tow	Staple and Tow Black	Staple and Tow Brown	Staple and Tow Blue
1.5	$1.33	$1.41	....	....	....
2.25	1.41	1.41	$1.76	....	....
3.0	1.41	1.41	1.76	$1.86	$1.96
4.5	1.36	1.36	....	....	....

Terms: Net 30 days. Payment—U. S. A. dollars.

Transportation charges prepaid or allowed to destination in continental United States, except Alaska. Seller reserves right to select route and method of shipment. If Buyer requests and Seller agrees to a route or method involving higher than lowest rate Buyer shall pay the excess of transportation cost and tax.

* "Kodel" is a trade-mark of the Eastman Kodak Company.

Celanese Fibers Company

Current Prices Effective June 10, 1960

Fortrel Polyester Staple and Tow

Staple

Denier	Luster	Price
1.5	Semi-dull	$1.26
3	Semi-dull	1.36
4.5	Semi-dull	1.31
6	Semi-dull	1.31

Staple lengths 1½", 2" and 3".
All staple packaged in 500 pound bales.

Tow

Denier	Luster	Price
1.5	Semi-dull	$1.36
3	Semi-dull	1.36
4.5	Semi-dull	1.31
6	Semi-dull	1.31

Total denier of all tow is 225,000.
All tow packaged in 300 to 400 pound cartons.
TERMS: Net 30 days. F.O.B. destination—Freight prepaid our route within the continental limits of the United States, excluding Alaska. Prices subject to change without notice.

VINYON

American Viscose Corp. Effective October 1, 1956

Avisco Vinyon Staple

3.0 denier	½" unopened	$.80 per lb.
3.0 "	1¼" unopened	.80 per lb.
3.0 "	1¼" opened	.90 per lb.
3.0 "	2" opened	.90 per lb.
3.0 "	2" unopened	.80 per lb.
5.5 "	1" opened	.90 per lb.
5.5 "	3½" opened	.90 per lb.
5.5 "	3½" unopened	.80 per lb.

Terms: Net 30 days.

SARAN

The National Plastics Products Company—Fibers Division
Odenton, Maryland

Current Prices: Saran Staple

Type	Denier	Natural	Colors
2Y—Upholstery	22	$0.70	$0.75
2Y—Upholstery	16	.74	.79
3Q—Industrial Fabrics	22	.68	.72
1C—Carpets	22	.68	.72
1M—Mops	22	.68	.72

In any staple length 1¼ to 6". Also 45 denier, 7" cut.
F.O.B. Odenton, Maryland.
Terms: net 30 days.

GLASS YARN

Owens Corning Fiberglas Corp.

A Decorative Continuous Yarn

DE 150 1/0 1.0 TPI ..... 53¢ per lb.
F.O.B. Freight Allowed.

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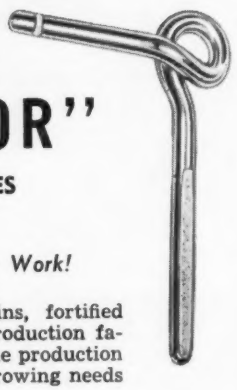

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And today, Collins "Irridior" Thread Guides are "tops" in the processing of Nylon and Rayon threads—because "Irridior" means harder, denser chrome-plating designed to last longer.

"For those who prefer Matte or Sandblast finish, try our Irridior Matte Finish F75."

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Calendar of Coming Events

Sept. 7—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Sept. 7-8—Canadian Textile Seminar. Queen's University, Kingston, Ont.
Sept. 7-8—Combed Yarn Spinners Association annual meeting. Greenbrier, White Sulphur Springs, W. Va.
Sept. 8—Textile Quality Control Association meeting. Clemson House, Clemson, S. C.
Sept. 8-9—Combed Yarn Spinners Association. The Cloister, Sea Island, Ga.
Sept. 9—AATCC Northern New England Section. Wachusett Country Club, West Boylston, Mass.
Sept. 10—AATCC South Central Section. Hotel Patten, Chattanooga, Tenn.
Sept. 14-17—Southeastern Maintenance & Engineering Show. State Fair Arena, Raleigh, N. C.
Sept. 15—Chattanooga Yarn Association annual outing. Read House, Chattanooga, Tenn.
Sept. 22-23—First International Textile Dyestuffs, Finishes and Auxiliaries Exhibition. Free Trade Hall, Manchester, England.
Sept. 26-30—ISA Fall Instrument-Automation conference & exhibit. Coliseum, New York, N. Y.
Sept. 28-29—Chemical Finishing Conference, sponsored by National Cotton Council. Statler Hotel, Washington, D. C.
Sept. 28-30—N. C. Textile Manufacturers Association meeting. The Carolina, Pinehurst, N. C.
Oct. 3-7—Southern Textile Exposition. Textile Hall, Greenville, S. C.
Oct. 5—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Oct. 6-8—AATCC national convention. Sheraton Hotel, Philadelphia, Pa.
Oct. 18-19—Institute of Textile Technology Technical Advisory Committee and Board of Trustees meeting. Charlottesville, Va.
Oct. 19—Textile Veterans Association 14th annual achievement award dinner. Commodore Hotel, New York, N. Y.
Oct. 21—AATCC Northern New England Section meeting. Dedham, Mass.
Oct. 22—Textile Operating Executives of Georgia slashing and weaving discussion. Georgia Tech, Atlanta, Ga.
Oct. 27-28—The Fiber Society fall meeting. Washington Hotel, Washington, D. C.
Nov. 2—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.
Nov. 10—Thread Institute annual meeting. Hotel Commodore, New York, N.Y.
Nov. 12—Textile Education Foundation, Inc. Georgia Tech, Atlanta, Ga.
Nov. 12—Alabama Textile Operating Executives carding and spinning discussion. Georgia Tech., Atlanta, Ga.
Nov. 28-Dec. 2—Power & Mechanical Engineering Exhibition. Coliseum, New York, N. Y.
Dec. 7—AATT monthly meeting. Della Robbia Room, Hotel Vanderbilt, New York, N. Y.

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Feb. 7-9—2nd Canadian Textile Conference sponsored by Textile Technical Federation of Canada and Primary Textiles Institute. Queen Elizabeth Hotel, Montreal, Que.
Mar. 23-25—ACMI annual meeting. Fontainebleau Hotel, Miami Beach, Fla.
Apr. 16-18—Narrow Fabrics Institute spring meeting. The Tides Inn, Irvington, Va.
Apr. 24-25—Underwear Institute annual meeting. Hotel Dennis, Atlantic City, N. J.
Apr. 24-28—Knitting Arts Exhibition. Auditorium, Atlantic City, N. J.

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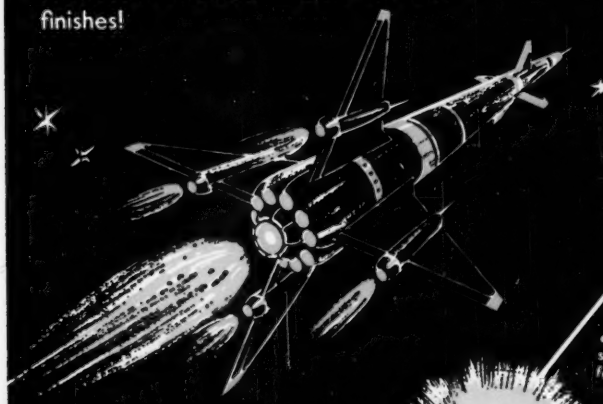

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